

TA-E511/E611

SERVICE MANUAL

US Model

TA-E511

TA-E611

Canadian Model

E Model

Australian Model

TA-E511

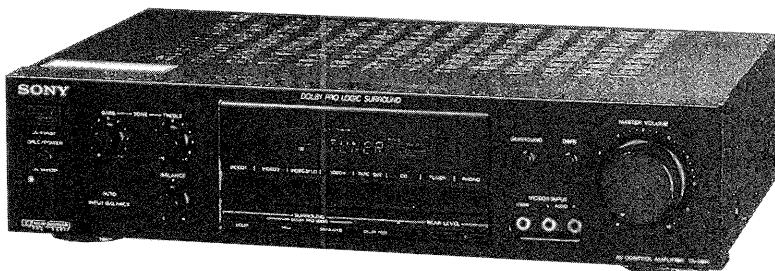


PHOTO : TA-E611

SPECIFICATIONS

Amplifier section

Harmonic distortion (Front)
Less than 0.02% (at 1 kHz, 1.0 V,
Surround/DRLC: off)
Frequency response (Surround/DRLC: off)
PHONO: RIAA equalization curve ± 1.0 dB
TUNER, CD, ADAPTOR, TAPE/DAT,
VIDEO 1, 2, 3/LD, 4: 10 Hz - 70 kHz ± 1.0 dB

Video section

Video input/output
Permissible signal input level
VIDEO 1, 2, 3/LD, 4: 1.5 Vp-p
Output signal level
VIDEO 1, 2, MONITOR: 1 +0.1 Vp-p
(with 1 Vp-p input, measured at MONITOR
OUT)
Impedance (output)
75-ohm unbalanced, negative sync.

Audio section

Input

Input jack	Jack type	Sensitivity	Impedance
PHONO (MM)	Phono	2.0 mV	50 kohms
TUNER, CD, TAPE/DAT, VIDEO 1, 2, 3/LD, 4, ADAPTOR	Phono	150 mV	50 kohms

'78 IHF

Output

Output jack	Jack type	Sensitivity	Impedance
TAPE/DAT, VIDEO 1, 2, ADAPTOR	Phono	150 mV	470 ohms
OUTPUT FRONT, REAR, CENTER (TA-E611 only)	Phono	1.0 V	1 kohm

Tone controls BASS: ± 7 dB (100 Hz)
 TREBLE: ± 8 dB (10 kHz)

Dolby input sensitivity
500 mV

General

AV control amplifier

NF type tone control
Digital Delay Surround circuit
Operation circuit matrix type

Power requirements

US, Canadian Models : AC 120V~60Hz 120W
E Model : AC 120V/230V/240V~50/60Hz 120W
Australian Model : AC 240V~50Hz 120W

Power consumption

TA-E511: 12 W
TA-E611: 20 W

AC outlets

4 switched, 480 W/4 A max.

Dimensions

430 x 105 x 295 mm (w/h/d)
(17 x 4 1/4 x 11 5/8 inches)

Weight

3.3 kg (7 lb 5 oz)

Accessories supplied

Power amp control cord (1)
Audio connecting cord (2)
Remote commander RM-P312 (1)
Sony Batteries SUM-3 (NS) (2)

Design and specifications subject to change without notice.

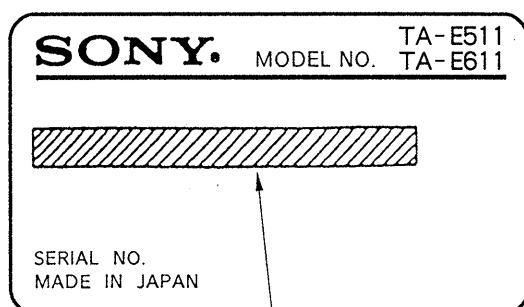
AV CONTROL AMPLIFIER
SONY[®]

TABLE OF CONTENTS

Section	Title	Page
SPECIFICATIONS		1
1. GENERAL		3
2. DIAGRAMS		
2-1. Description on IC303 (LV1001M)		8
2-1-1. Service Note		9
2-2. Circuit Boards Location		10
2-3. Block Diagram		11
2-4. Printed Wiring Boards – Surround – (TA-E511)		14
2-5. Schematic Diagrams – Surround – (TA-E511)		17
2-6. Schematic Diagrams – Surround – (TA-E611)		21
2-7. Printed Wiring Boards – Surround – (TA-E611)		25
2-8. Printed Wiring Boards – Control etc.		28
2-9. Schematic Diagrams – Control etc.		31
2-10. Semiconductor Lead Layouts		36
2-11. IC Block Diagrams		37
3. EXPLODED VIEWS		
3-1. Front Panel Section		39
3-2. Back Panel Section		40
4. ELECTRICAL PARTS LIST		41

MODEL IDENTIFICATION

- Specification Label -



US, Canadian Model : AC 120V ~ 60Hz 120W

E Model : AC 120V/230V/240V

~ 50/60Hz 120W

Australian Model : AC 240V ~ 50Hz 120W

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

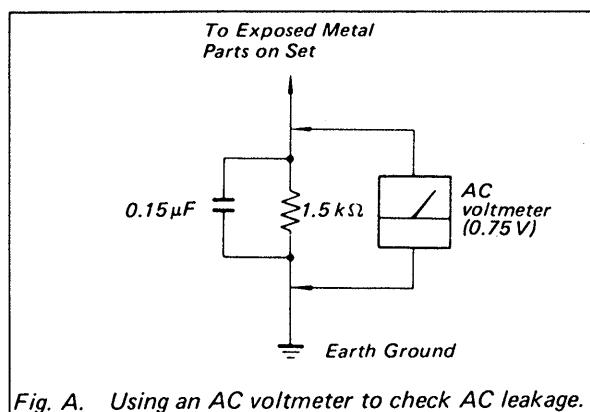


Fig. A. Using an AC voltmeter to check AC leakage.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

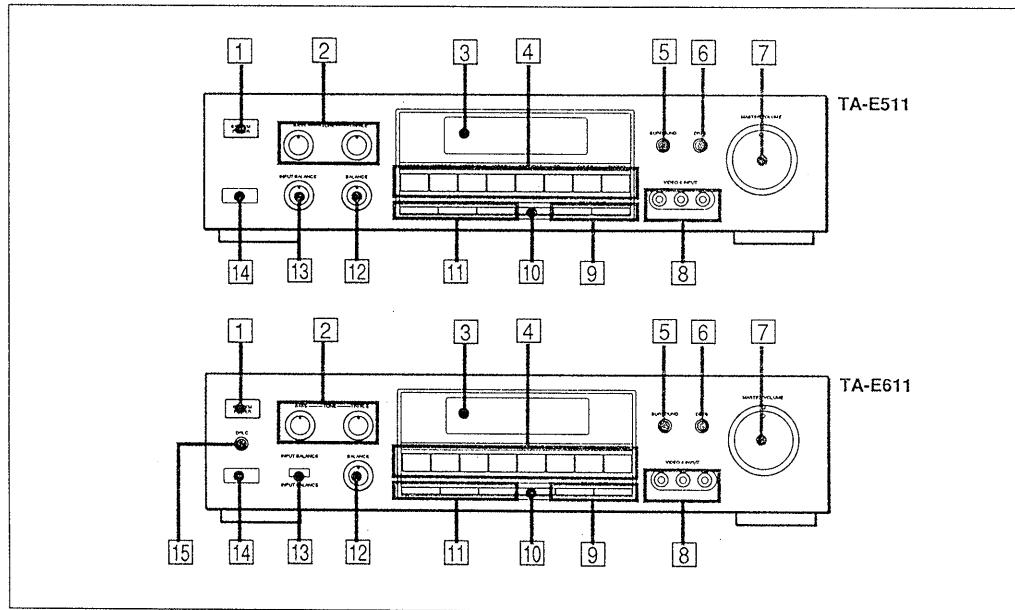
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1

GENERAL

This section is extracted from instruction manual.

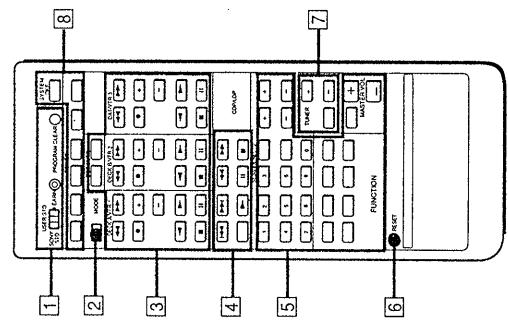
Location and Function of Controls



① SYSTEM POWER switch	⑪ SURROUND selectors (TA-E511) SURROUND MODE selectors and DOLBY PRO LOGIC buttons (TA-E611)
② TONE (BASS and TREBLE) controls	⑫ BALANCE control
③ Display window	⑬ INPUT BALANCE control (TA-E511) AUTO INPUT BALANCE indicator (TA-E611)
④ Function selectors	⑭ Remote control sensor
⑤ SURROUND button	⑮ DRLC (Dual Room Link Control) button (TA-E611)
⑥ DBFB button	
⑦ MASTER VOLUME control	
⑧ VIDEO 4 INPUT jacks	
⑨ REAR LEVEL +/- buttons	
⑩ DELAY TIME button	

Location and Function of Controls

Programmable Remote Commander RM-P312



The RM-P312 can "learn" various functions of other remote commanders which use infrared rays. When the mode selector is set to SONY STD (Sony standard), buttons on the RM-P312 can be used to perform the functions below:

1 Program control section

Mode selector and indicator

SONY STD: To control Sony equipment.

USER STD: To control equipment whose remote control functions are stored.

LEARN: To store functions of other remote commanders emitting infrared rays.

PROGRAM CLEAR button: Clears the stored functions.

2 MODE selector

Selects the function mode on the remote commander.

1: To select the function indicated in light gray such as

DECK, DAT, CD player and surround mode of

amplifier.

2: To select the functions indicated in blue such as

VCR, LD/P (laser disc player) and TV.

3 Tape deck/DAT/VCR control section

ANT (antenna) TV/VTR button: Selects the output signal from the antenna terminal on the VCR, either a TV signal or VCR programs.

VTR CH (channel) +/- buttons: Select channel on the VCR.

◀▶◀▶: Fast winding

●: Recording

◀▶: Play

■: Stop

II: Pause

REC MODE REV/FWD buttons:

For reverse recording, press REV and ● together.

For forward recording, press FWD and ● together.

4 CD/LD player control section

The combined CD/LD player can be controlled with LDP position.

D.(disc) SKIP: Disc skip (for a CD player equipped with a multi-disc changer)

◀: Play

II: Pause

■: Stop

◀▶◀▶: Manual search (only for LD player)

◀▶◀▶: Locates a desired selection.

Loading the Batteries

Insert two R6 (size AA) batteries with correct polarity.

Battery life
About half a year of normal operation can be expected when using the Sony SUM-3 (NS) batteries.

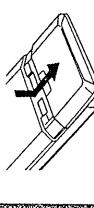
When the batteries are exhausted, the commander can no longer operate the unit. Replace both batteries with new ones.

2 To avoid battery leakage

When the commander is not to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage and corrosion.

3 To avoid malfunction of the remote commander

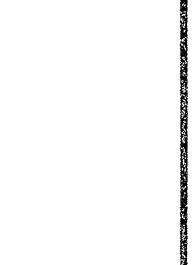
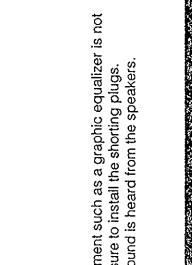
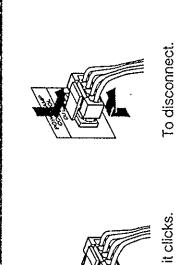
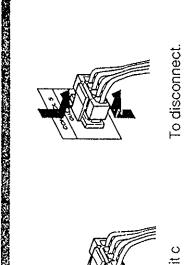
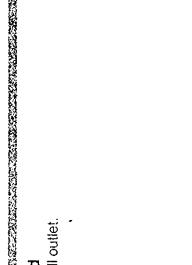
Avoid keeping the commander under extremely hot or humid locations.



Note on the ● (recording) button under 3 Tape deck
DAT/VTR control section
If your recorder is of such type as pressing ● puts it in recording pause mode, first press ● on this commander and then II.

Note:
The ▶ (play) buttons in 3 and 4 and the SHIFT button and PRESET +/- buttons in 7 can function without pressing one of the FUNCTION buttons in 5, if the CD player is connected to the CD jacks, the tape deck to the TAPE jacks, and the video deck to the VIDEO 1 jacks (switch the MODE on the remote commander to VTR 1).

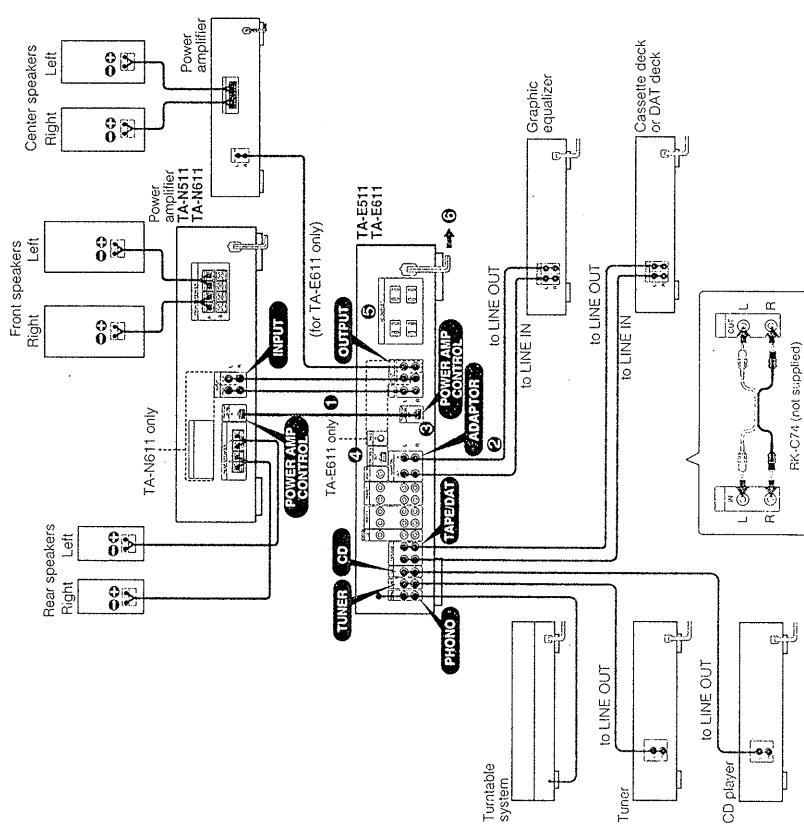
Connections

<p>① DRLC (TA-E611 only) The TA-E511 has a monaural output for rear speakers of the TA-N511. The TA-E611 has left and right outputs for rear and DRLC speakers of the TA-N611, and for center speakers which need to be connected through an stereo amplifier.</p>	<p>② Connecting a graphic equalizer, etc. Before connecting the equipment such as a graphic equalizer, remove the shorting plugs.</p>	<p>③ Power amp control cord (supplied) Connect the POWER AMP CONTROL OUT jack on the rear to the POWER AMP CONTROL IN jack on the power amplifier TA-N511/TA-N611. The output of the power amplifier is controlled by the unit.</p>	<p>④ Flat remote control cord (not supplied) Connect to the CONTROL S IN jack of other Sony equipment with the flat remote control cord for whole audio system remote control.</p>	<p>⑤ AC OUTLETS (SWITCHED) Use these to power audio components whose total power consumption is less than the wattage indicated on the AC outlets. These outlets are controlled by the SYSTEM POWER switch.</p>	<p>⑥ Power cord Connect to a wall outlet.</p>
					
<p>The TA-E511 has a monaural output for rear speakers of the TA-N511. The TA-E611 has left and right outputs for rear and DRLC speakers of the TA-N611, and for center speakers which need to be connected through an stereo amplifier.</p>	<p>Before connecting the equipment such as a graphic equalizer, remove the shorting plugs.</p>	<p>Connect the POWER AMP CONTROL OUT jack on the rear to the POWER AMP CONTROL IN jack on the power amplifier TA-N511/TA-N611. The output of the power amplifier is controlled by the unit.</p>	<p>Connect to the CONTROL S IN jack of other Sony equipment with the flat remote control cord for whole audio system remote control.</p>	<p>Use these to power audio components whose total power consumption is less than the wattage indicated on the AC outlets. These outlets are controlled by the SYSTEM POWER switch.</p>	<p>Connect to a wall outlet.</p>
<p>Note When the equipment such as a graphic equalizer is not connected, be sure to install the shorting plugs. Otherwise, no sound is heard from the speakers.</p>	<p>Note Push in until it clicks. To disconnect.</p>	<p>Note Push in until it clicks. To disconnect.</p>	<p>Note Push in until it clicks. To disconnect.</p>	<p>CAUTION Do not connect any electrical home appliances such as an electric iron, fan, TV or other high wattage equipment to these AC outlets.</p>	

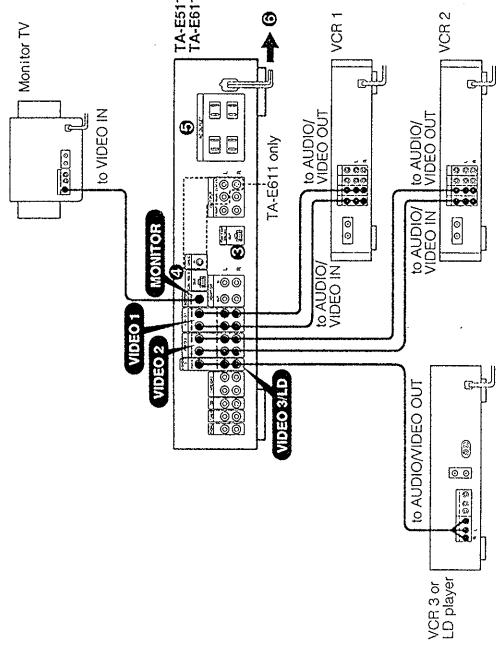
Connections

- Connect the AC power cord last. Make sure power is off.
- Cord plugs and jacks are color coded. Red plugs and jacks are for right channel (R) and white ones for the left channel (L).
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.

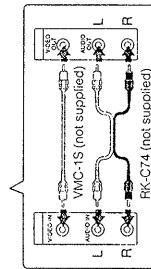
Connecting Audio Equipment



Connecting Video Equipment



CD player

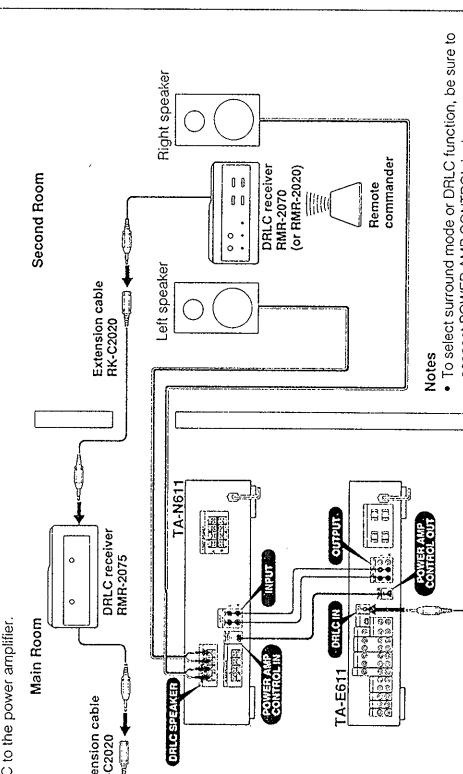


Function of Dual Room Link Control System (TA-E611 only)

Connections for Dual Room Link Control System

The Dual Room Link Control (DRLC) allows you to "link" a second room to your main or primary listening room. When the Dual Room Link Control Kit RMR-S2070K or RMR-S2020K (optional) and optional speakers are connected to your audio system and they are placed in the second room, either the same program source being played in the main room or a different program source can be heard in the second room.

When using the RMR-S2070K
Connect the DRLC RMR-2070, the power amplifier TA-E611, and the speakers for DRLC to the power amplifier.



Notes
• To select surround mode or DRLC function, be sure to connect POWER AMP CONTROL jacks.
• The surround system in the main room and DRLC function cannot be operated simultaneously.

Operations

1 Press DRLC/POWER button. (The SYSTEM POWER switch on the AV control amplifier does not need to be turned on.)

2 Control the system with the remote commander for the second room.

The following examples illustrate program source options for the main and second room:

Listening in the main room	Listening in the second room
CD	FM broadcast
Tape	CD
Sound from TV	Same sound from TV
Off	FM broadcast
Sound from video source (with surround effect)	Second room system selected
FM broadcast	Off

Notes
• The surround system in the main room and DRLC function cannot be operated simultaneously.
• When the AV control amplifier receives a remote control signal from the second room, the DRLC indicator flashes. During this period, the AV control amplifier cannot receive the remote control signal in the main room.

• You cannot use the following functions from the second room.

- Surround effect
- DBFB effect
- Tone control
- BALANCE control

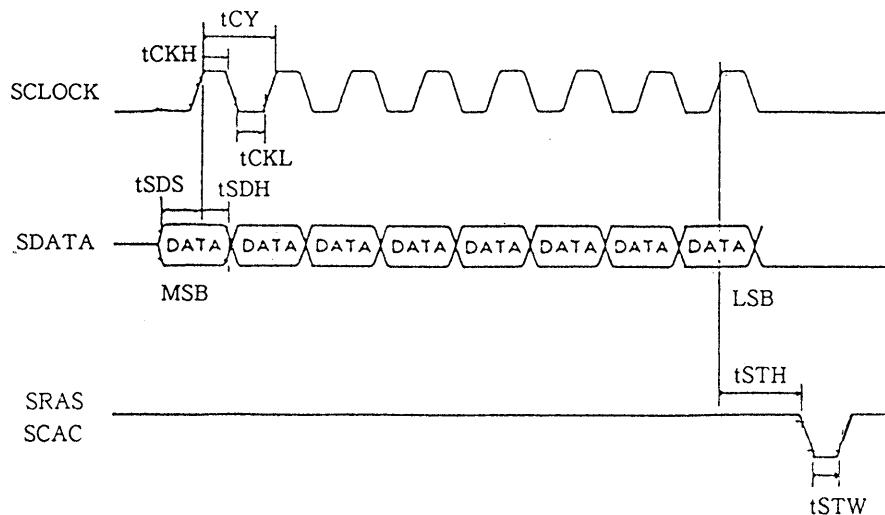
SECTION 2

DIAGRAMS

2-1. DESCRIPTION ON IC303 (LV1001M)

Pin No.	Explanations
1	De-couple capacitor for threshold voltage
2, 64	Capacitor for smoothing of rectifier output
3	Capacitor for sliding band filter and Delayed output
4, 62	Capacitor for sliding band filter
5, 61	Capacitor for pre-emphasis
6, 60	Input filter for rectifier
7, 57	Input filter for rectifier
8	Reference voltage
9	Reference voltage
10	Mute control
11	Vcc
12	Output for V _{DD}
13	Clock input for serial input, data input for parallel input mode
14	Data input for serial input, data input for parallel input mode
15	Column address selection for serial input, data input for parallel input mode
16	Row address selection for serial input, data input for parallel input mode
18 to 32	Connection to memory device
24	Vss
33	X'tal resonator for oscillator
34	X'tal resonator for oscillator
35	Long or Short mode selection
36	Serial or Parallel mode selection
37	For test mode
38	Smoothing for NR rectifier
39	Smoothing for NR rectifier
40	Capacitor for weighting on side chain path
41	Input for variable resistor
42	NR output
43	7kHz low pass filter output
44	Input for NR
45	Capacitor for de-couple on NR
46	Delay output or NR output
47	Input for mute circuit
48	Output for mute circuit
49	Output for 7kHz low pass filter
50	Input for 7kHz low pass filter
51	GND
52	Input for right channel
53	Input for left channel
54	Capacitor for de-couple on Fixed matrix output
55	Noise shaping and delay input
56	Noise shaping output
57	Delay input signal mode select switch (L + R / L - R)
58	Filter for supply voltage on comparator
63	Capacitor for sliding band filter and local decoder output

Input Address Port Timing
SHORT MODE



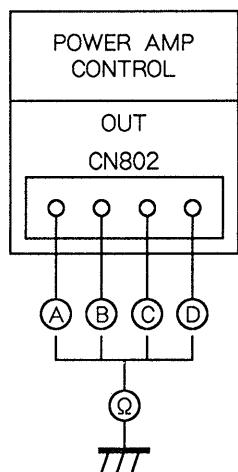
In case of short mode, delay time setting is set in above timing. The date loaded to SDATA is written on the leading edge timing. In order to select that the data latch for row address strobe or column address strobe is loaded, SRAS or SCAS port is controlled.

When changing delay time setting, meaningless data on a memory are read. this causes the pop noise. when SRAS or SCAS is controlled, mute circuit (pin 55 is input, pin 56 is output) is activated. Mute time is the same as the delay time which is set at that time. (Serial data input mode only, On parallel data input mode, mute circuit is activated by using the mute control port pin 18.)

On long mode, input data number is 9, the way of setting delay time is same.

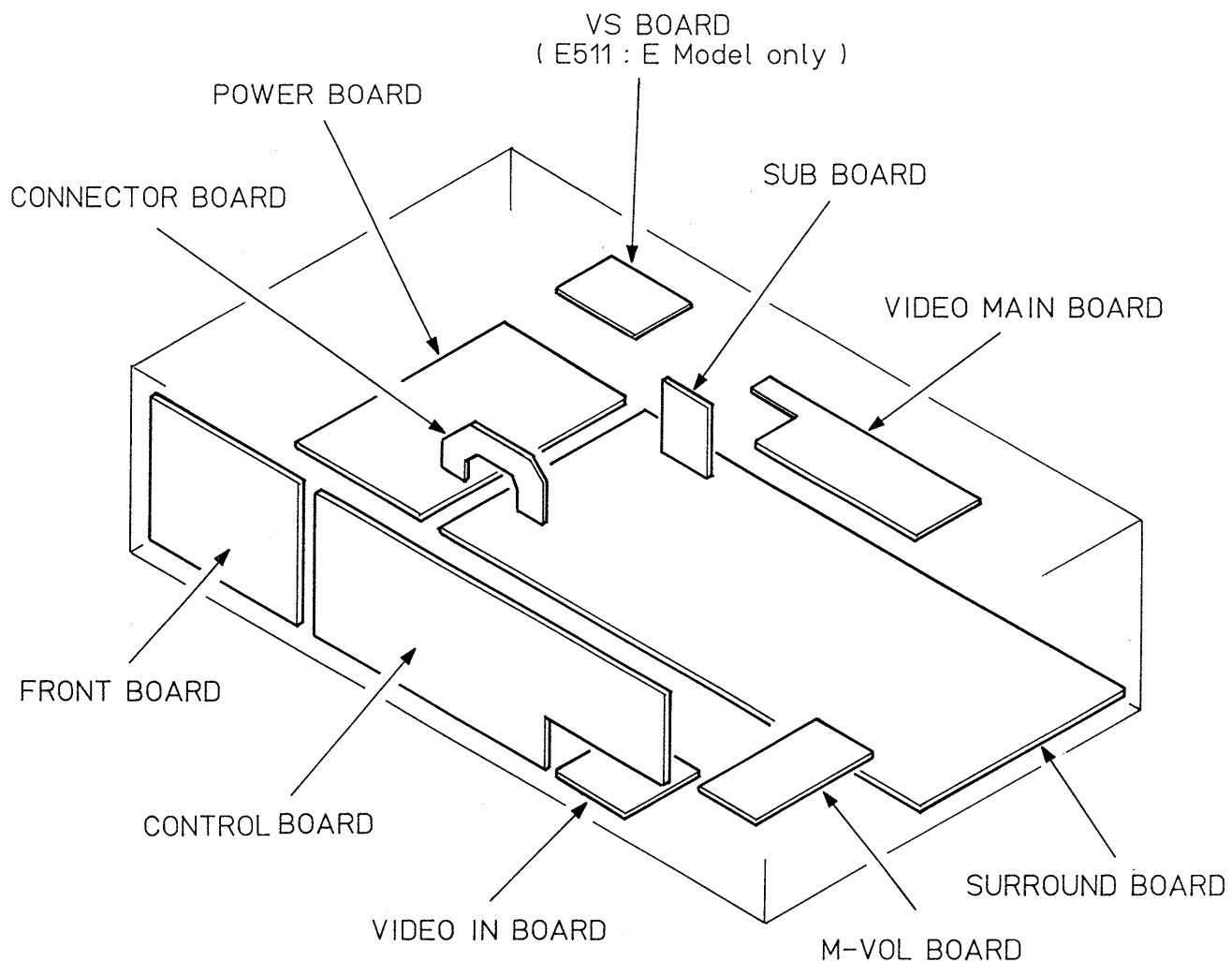
2-1-1. SERVICE NOTE

CN802 (POWER AMP CONTROL OUT)
(POWER AMP Unconnected Operation Check)

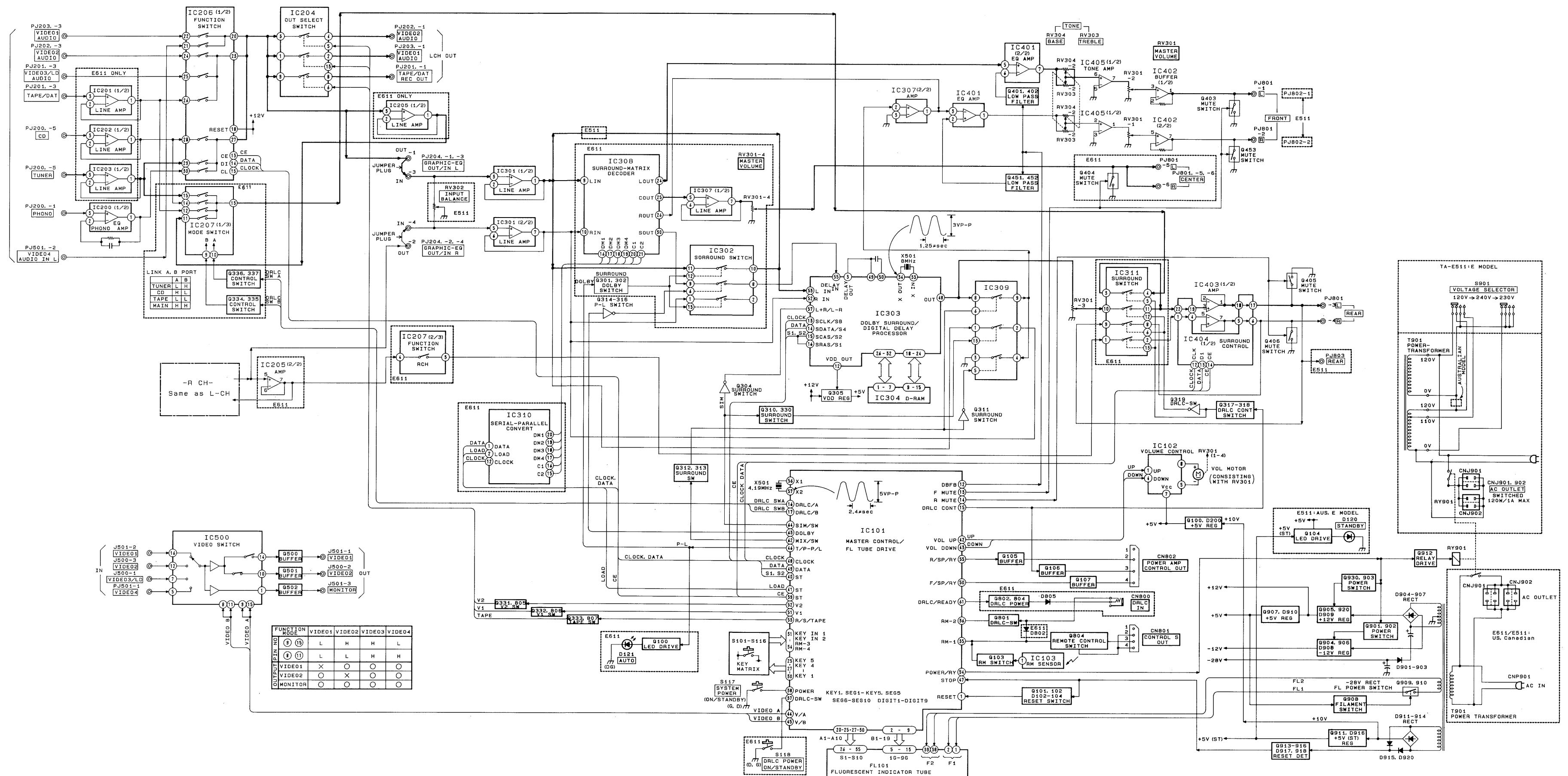


CN802	POWER OFF	POWER ON	SURROUND ON	POWER DRLC ON	DRLC ONLY ON
Ⓐ	$\infty \Omega$				
Ⓑ	0 Ω	0 Ω	$\infty \Omega$	0 Ω	0 Ω
Ⓒ	$\infty \Omega$	$\infty \Omega$	$\infty \Omega$	0 Ω	0 Ω
Ⓓ	0 Ω	$\infty \Omega$	$\infty \Omega$	$\infty \Omega$	20 Ω

2-2. CIRCUIT BOARDS LOCATION



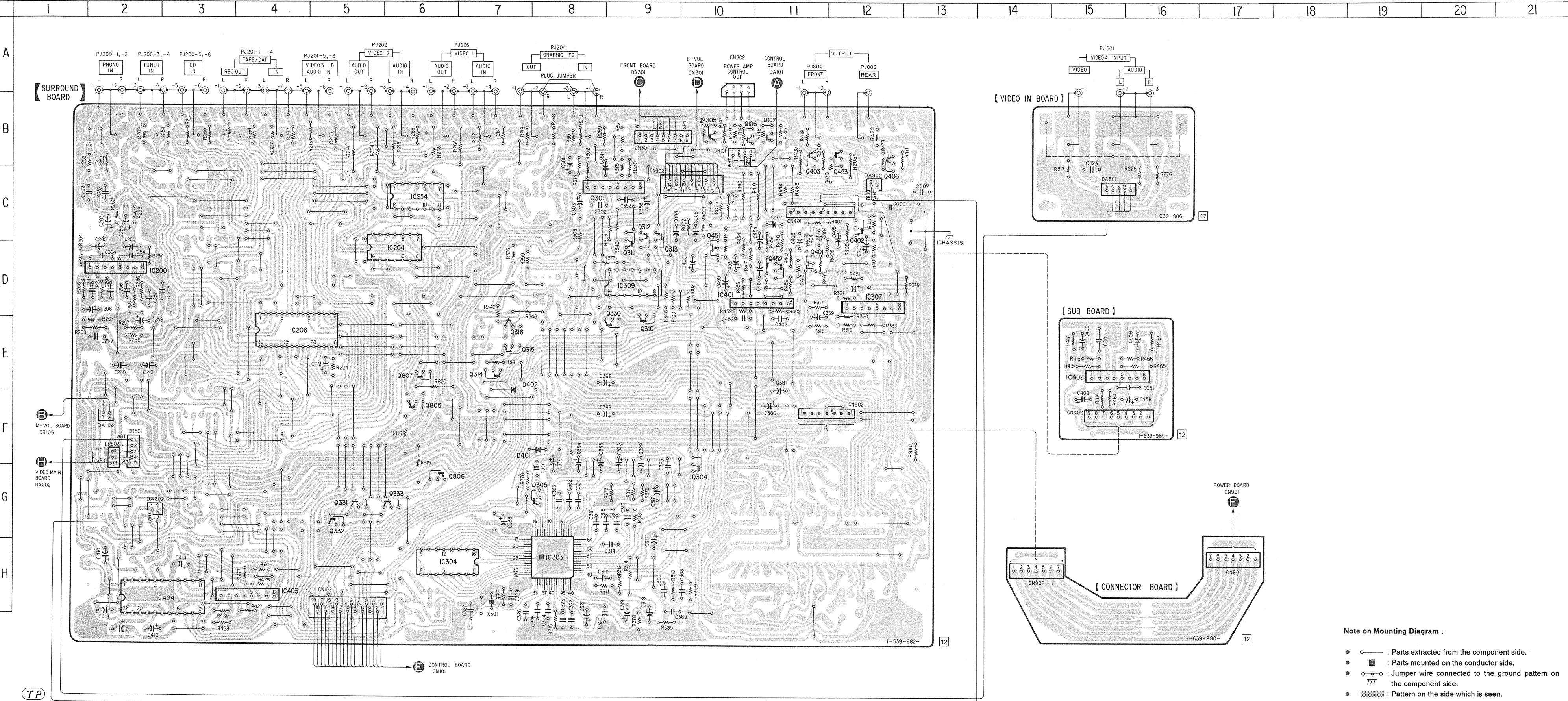
2-3. BLOCK DIAGRAM



2-4. PRINTED WIRING BOARDS - SURROUND - (TA-E511) • See page 36 for Semiconductor Lead Layouts.

• Semiconductor Location

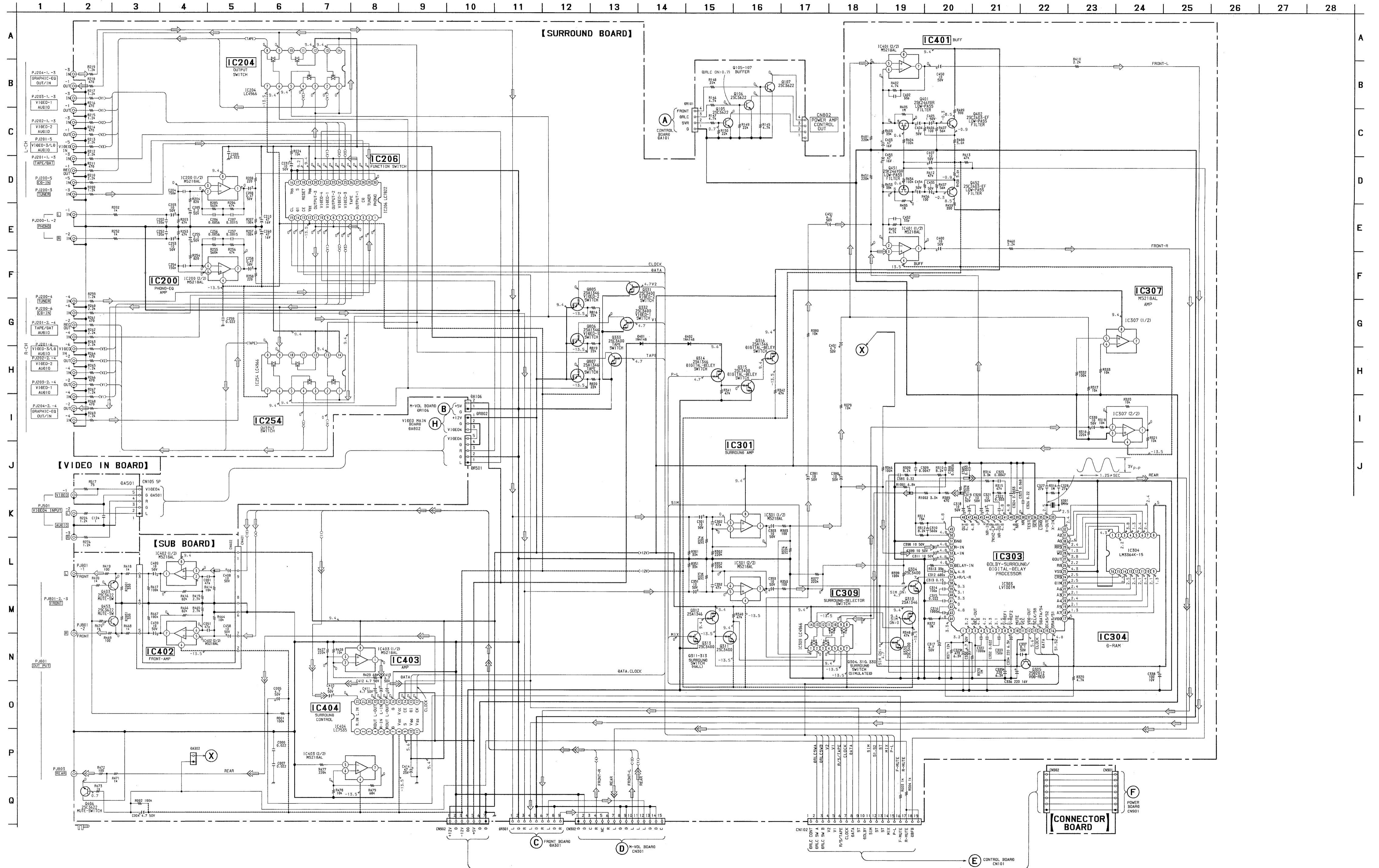
Ref. No.	Location
D401	F-8
D402	E-7
IC200	D-2
IC204	D-6
IC206	E-4
IC254	C-6
IC301	C-9
IC303	H-8
IC304	H-6
IC307	D-12
IC309	D-9
IC401	D-11
IC402	E-15
IC403	H-4
IC404	H-3
Q105	B-10
Q106	B-11
Q107	B-11
Q304	G-10
Q305	G-8
Q310	E-9
Q311	C-9
Q312	C-9
Q313	C-9
Q314	E-7
Q315	E-7
Q316	E-7
Q330	E-9
Q331	G-5
Q332	G-6
Q333	G-5
Q401	D-11
Q402	C-12
Q403	B-11
Q406	B-12
Q451	B-12
Q452	D-11
Q453	B-12
Q805	F-6
Q806	G-6
Q807	E-6

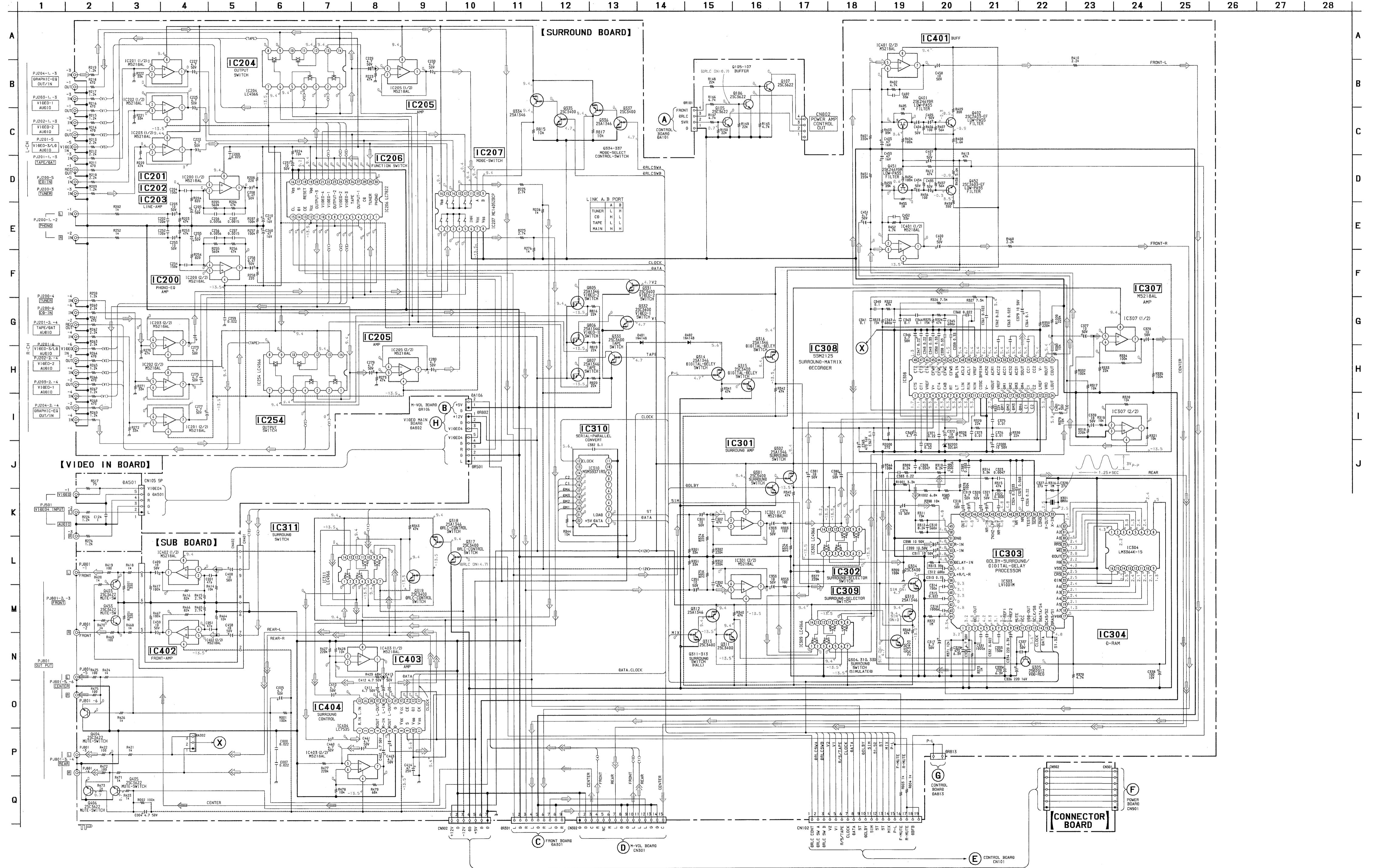


Note on Mounting Diagram :

- : Parts extracted from the component side.
- : Parts mounted on the conductor side.
- : Jumper wire connected to the ground pattern on the component side.
- ▨ : Pattern on the side which is seen.

AUS : Australian
CND : Canadian





Note on Schematic Diagram :

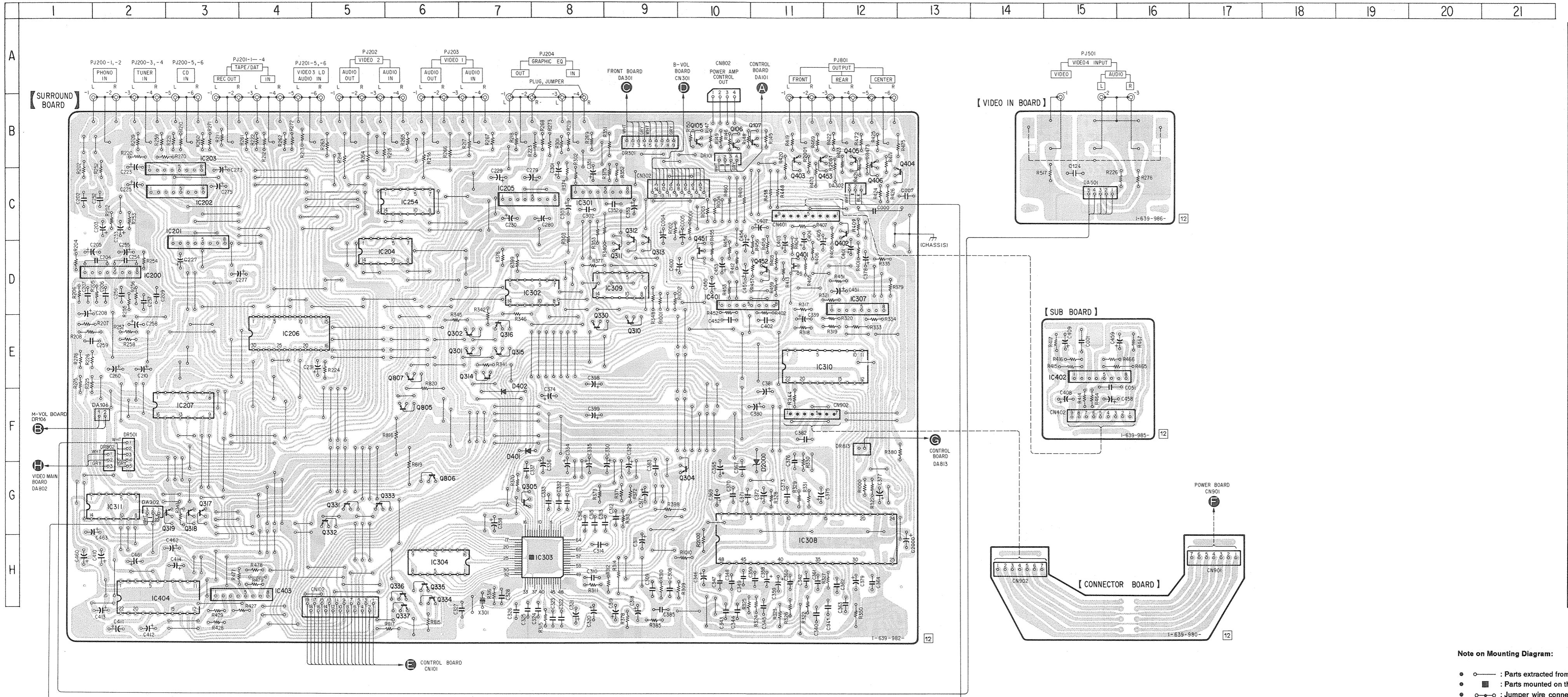
- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
-  : internal component.
-  : nonflammable resistor.

Note: The components identified by mark  or dotted line with mark  are critical for safety.

Note: Les composants identifiés par une marque  ou une ligne pointillée avec une marque  sont critiques pour la sécurité.

Replace only with part number specified.	pièce portant le numéro spécifié.
o  : B + Line.	
 : B - Line.	
o Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.	
no mark : CD POSITION	
o Voltages are taken with a VOM (input impedance 10 MΩ).	
Voltage variations may be noted due to normal production tolerances.	
o Waveforms are taken with a oscilloscope.	
Voltage variations may be noted due to normal production tolerances.	
o Signal path.	
 : TUNER FRONT	
 : CENTER	
 : REAR	
 : SURROUND(DELAY)	
AUS : Australian	
CND : Canadian	

2-7. PRINTED WIRING BOARDS - SURROUND - (TA-E611) • See page 36 for Semiconductor Lead Layouts.



2-8. PRINTED WIRING BOARDS - CONTROL etc. - See page 36 for Semiconductor Lead Layouts.

Semiconductor Location

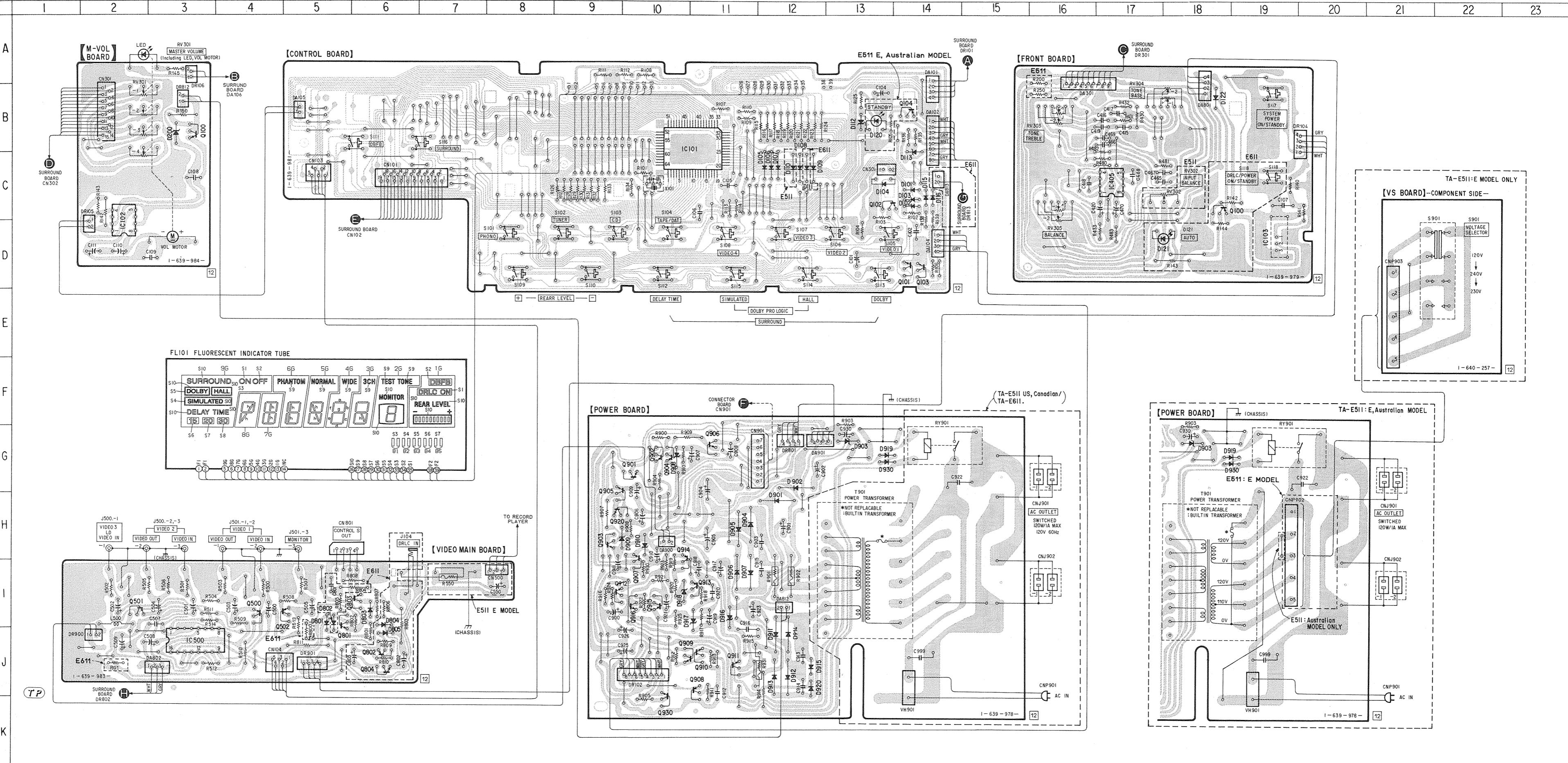
Ref. No.	Location	Ref. No.	Location
D101	C-14	Q100	C-18
D102	C-14	FRONT (E611)	
D103	C-14	Q100	B-3
D104	C-13	M-VOL	D-14
D105	C-12	Q101	C-13
D106	C-12	Q102	D-14
D107	C-12	Q103	B-14
D108	C-12	Q104	
D109			
D110	C-12	(E511: E, AUS)	
D111	C-12	Q500	I-4
D112	B-13	Q501	I-2
D113	C-14	Q502	I-5
D115	C-14	Q801	J-6
D116	C-14	Q802	(E611)
D120	B-13	Q803	I-6
(E511: E, AUS)		Q804	J-6
D121	D-18	Q901	G-10
D122	B-18	Q902	G-10
D200	B-3	Q903	H-9
D801	I-5	Q904	G-10
D802	I-5	Q905	H-9
(E611)		Q906	G-11
D803	I-6	Q907	I-10
D804	I-6	Q908	J-11
(E611)		Q909	J-10
D805	J-6	Q910	J-11
(E611)		Q911	J-11
D901	H-12	Q912	I-10
D902	G-12	Q913	I-11
D903	G-13	Q914	I-10
D904	H-11	Q915	I-10
D905	H-11	Q916	I-10
D906	I-11	Q920	H-9
D907	I-11	Q930	K-10
D908	G-10		
D909	H-10		
D910	H-10		
D911	J-12		
D912	J-12		
D913	J-12		
D914	J-12		
D915	J-12		
D916	I-11		
D917	I-11		
D918	I-10		
D919	G-13		
D920	J-12		
D930	G-13		
IC101	B-11		
IC102	D-2		
IC103	D-19		
IC405	C-17		
IC500	J-3		

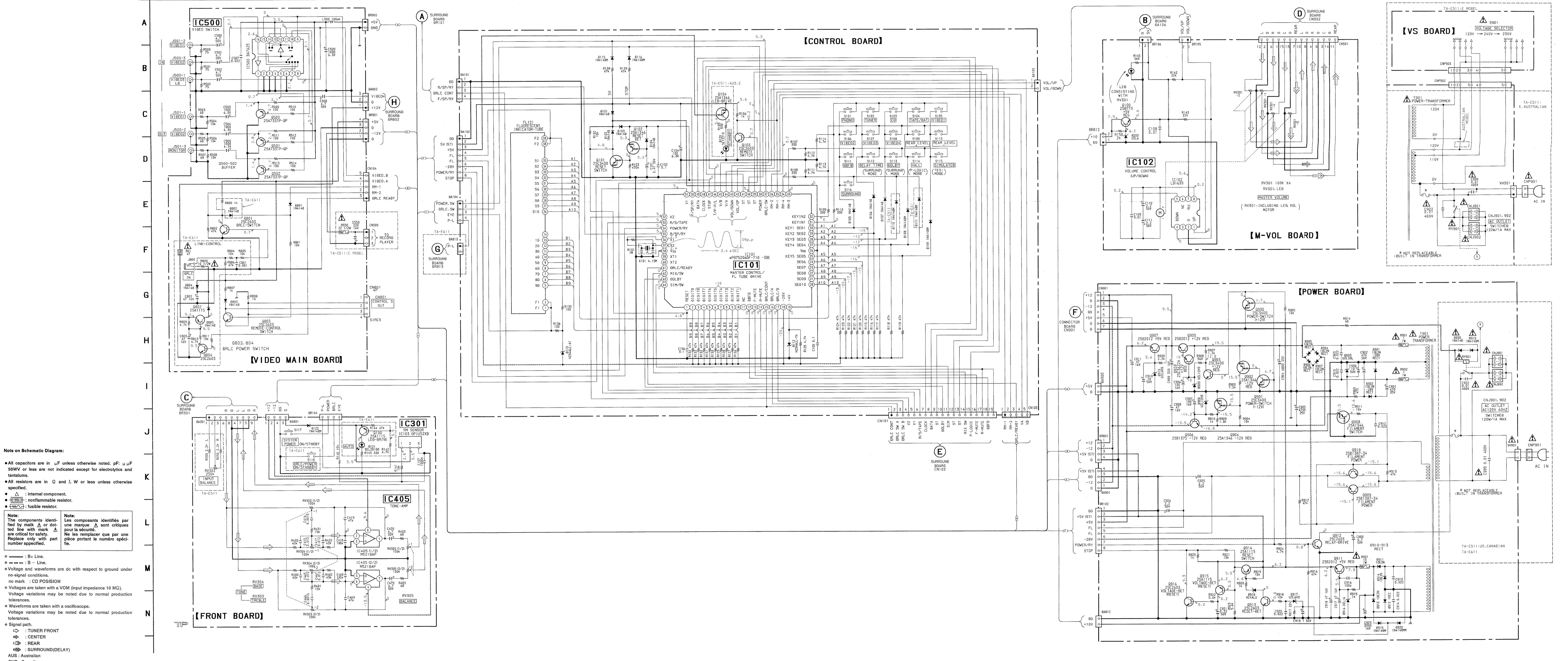
Note on Mounting Diagram:

- : Parts extracted from the component side.
- : Parts mounted on the conductor side.
- : Jumper wire connected to the ground pattern on the component side.
- : Pattern on the side which is seen.

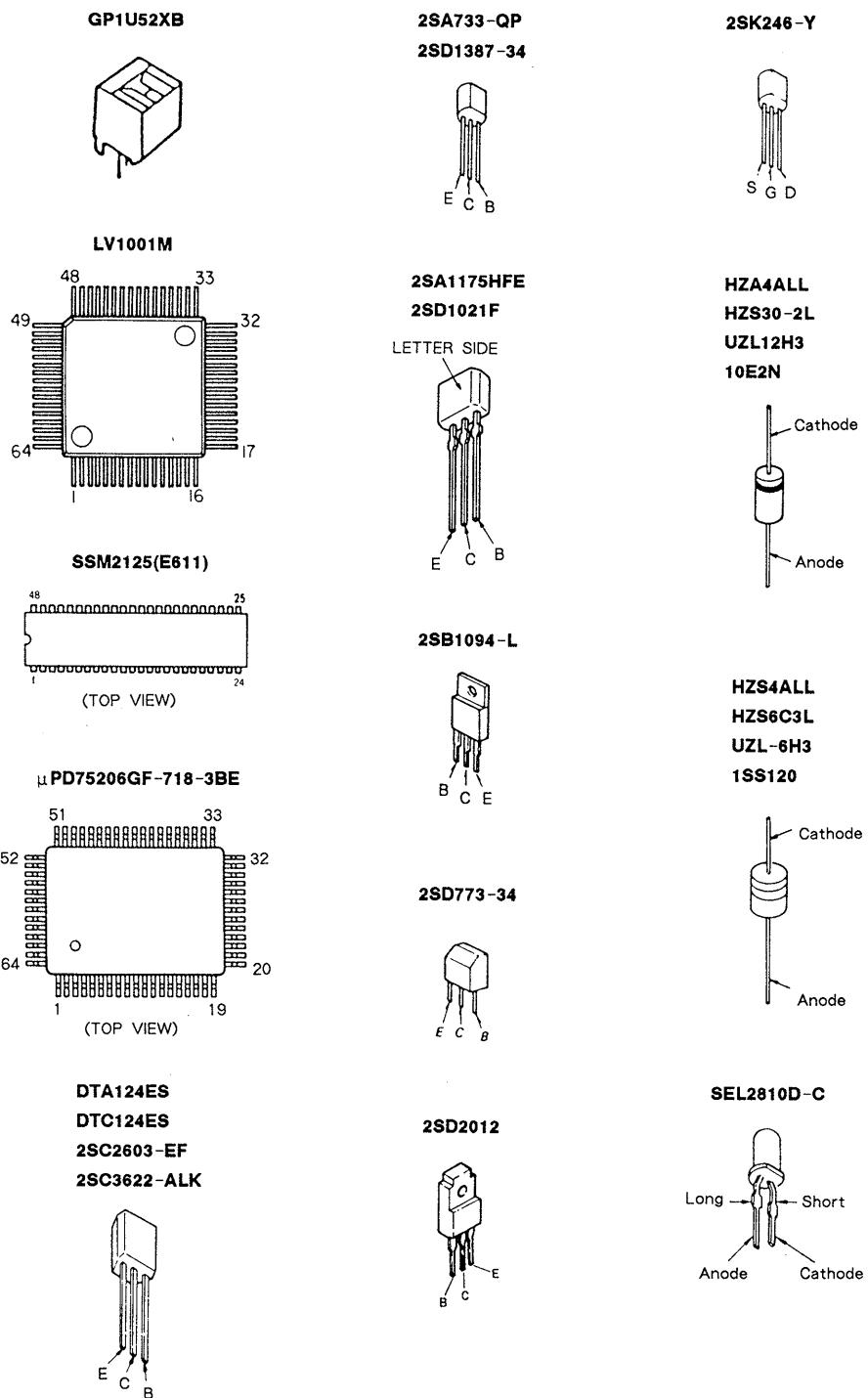
AUS : Australian

CND : Canadian

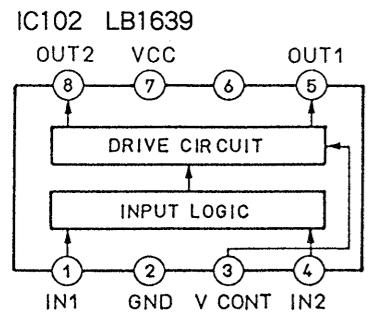




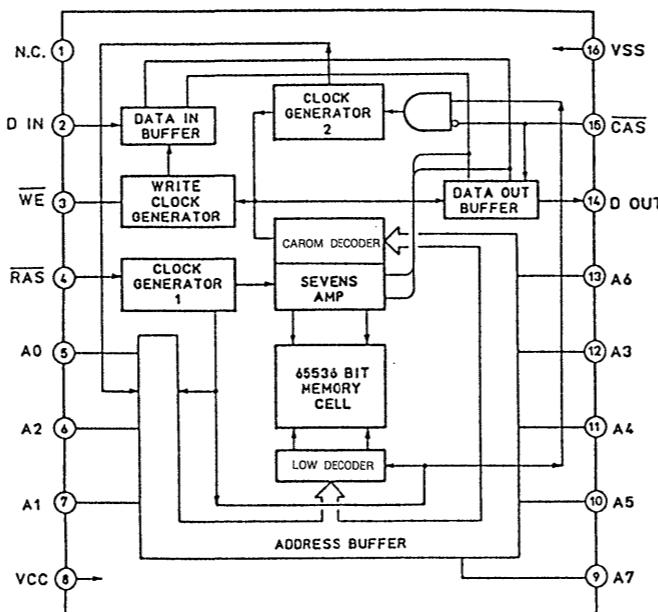
2-10. SEMICONDUCTOR LEAD LAYOUTS



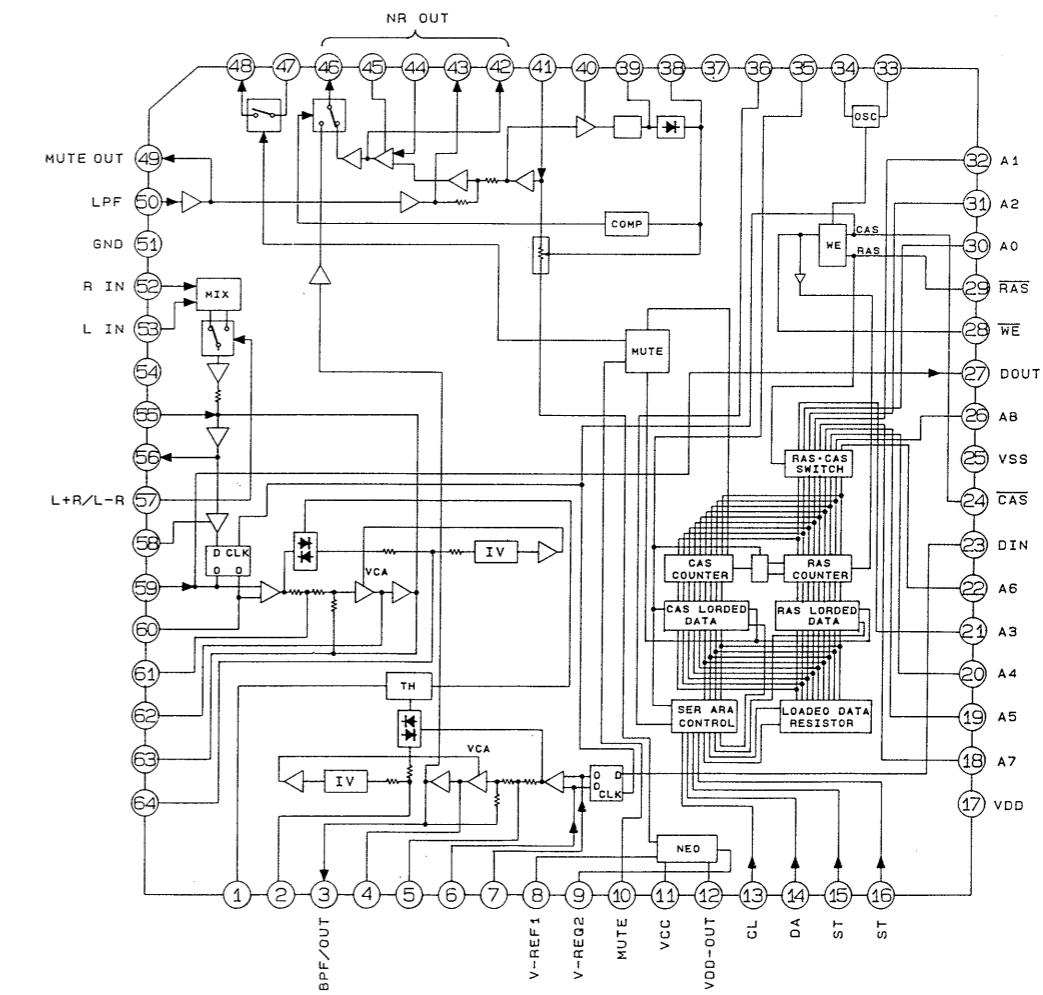
2-11. IC BLOCK DIAGRAMS



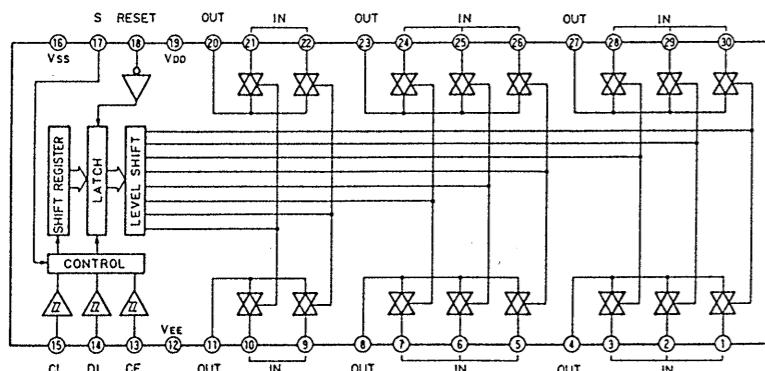
IC304 LM3364K-15



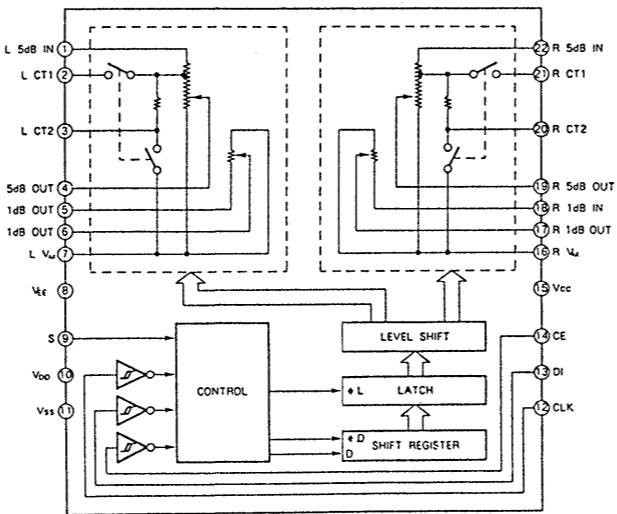
IC303 LV1001M



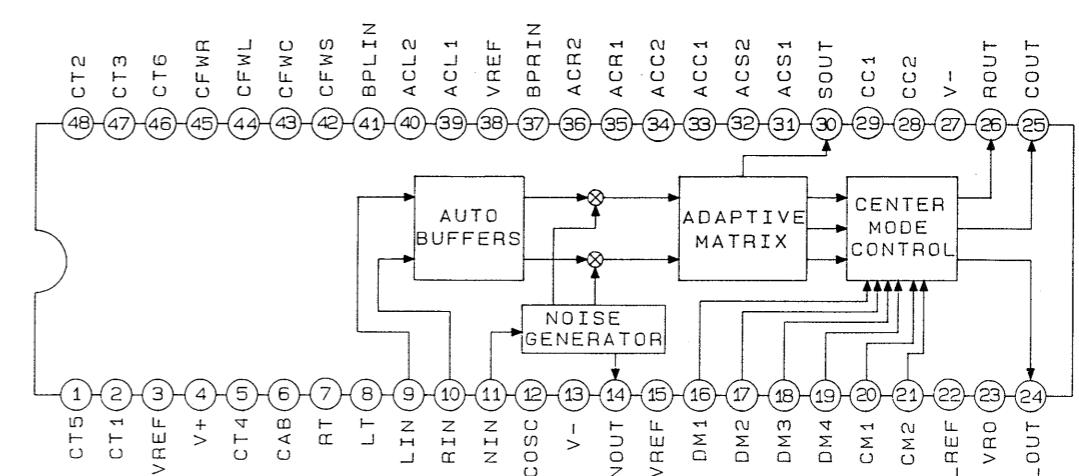
IC206 LC7822



IC404 LC7535



IC308 SSM-2125



SECTION 3

EXPLODED VIEWS

NOTE:

- - XX, - X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example :
KNOB, BALANCE (WHITE)...(RED)
↑ ↑
Parts color Cabinet's color

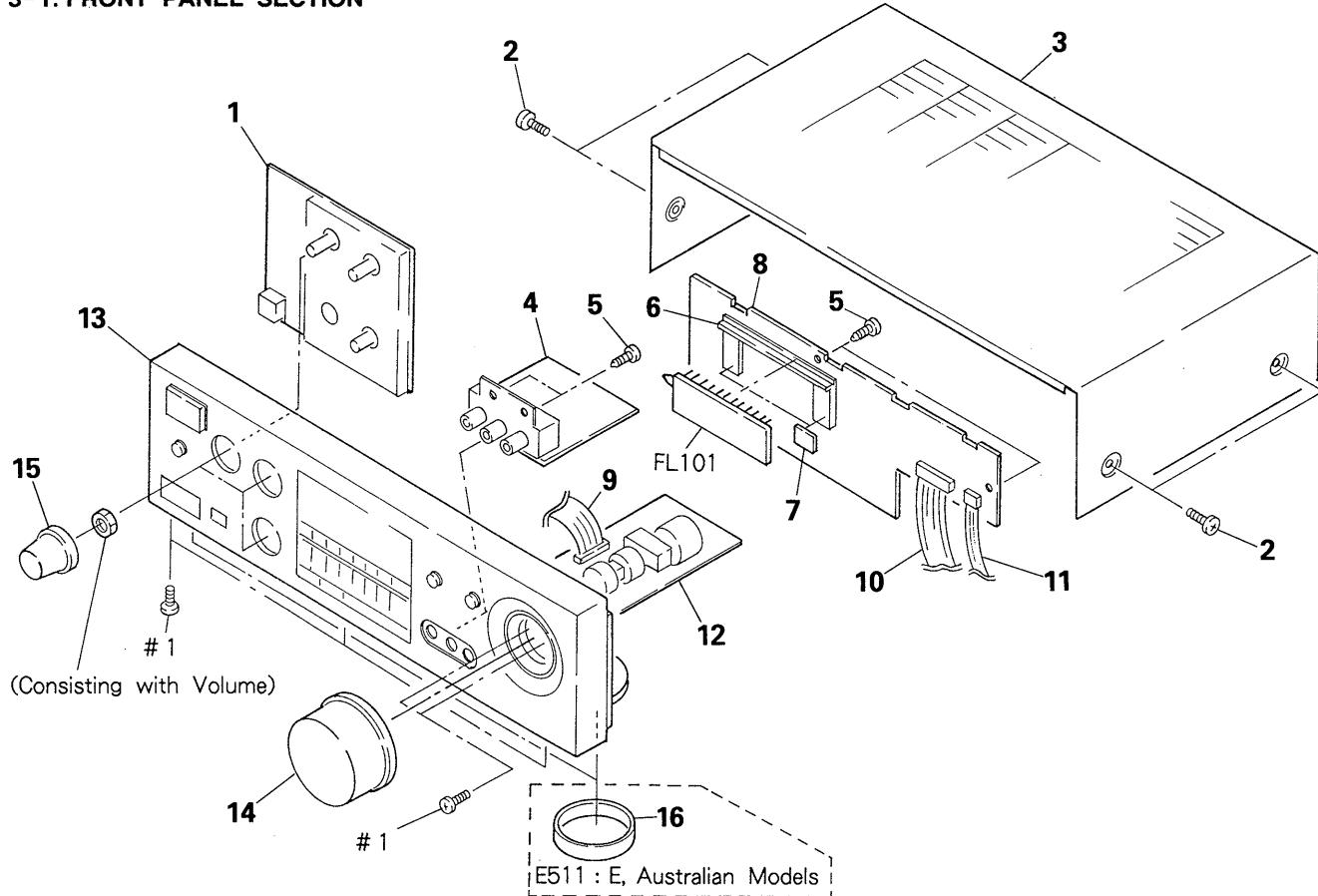
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

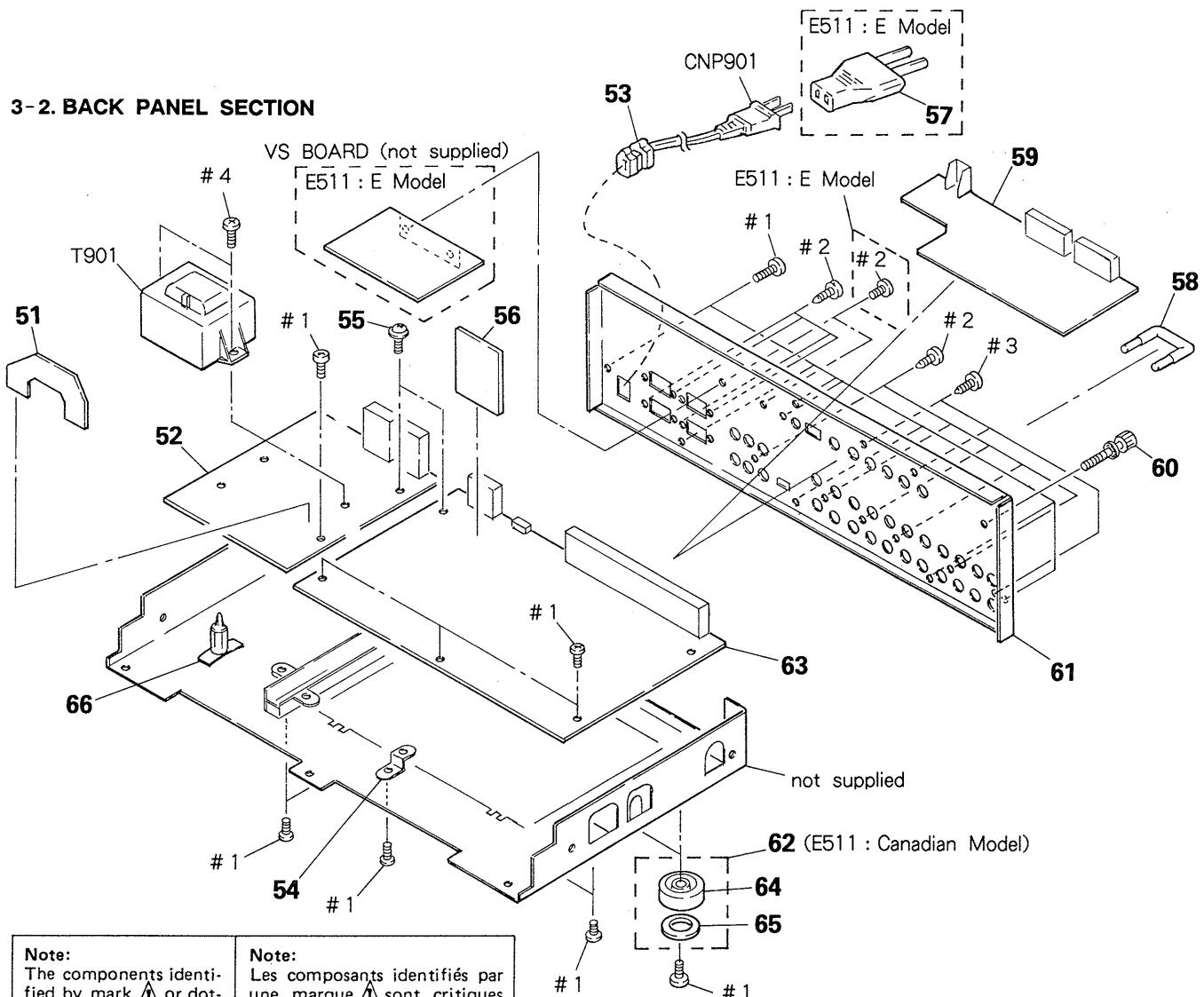
AUS : Australian

3-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	* A-4345-113-A	FRONT BOARD, COMPLETE (E511:US, Canadian)		9	1-690-065-11	WIRE, FLAT TYPE (15 CORE)	
	* A-4345-116-A	FRONT BOARD, COMPLETE (E511:E, AUS)		10	1-590-237-11	WIRE, FLAT TYPE (19 CORE)	
	* A-4345-177-A	FRONT BOARD, COMPLETE (E611)		11	1-690-066-11	WIRE, FLAT TYPE (5 CORE)	
	12	* 1-639-984-12	M-VOL BOARD				
2	3-704-366-01	SCREW (CASE) (M3X8)		13	X-4941-718-1	PANEL ASSY, FRONT (E611)	
3	* 4-937-817-11	CASE			X-4941-719-1	PANEL ASSY, FRONT (E511:US)	
4	* 1-639-986-12	VIDEO IN BOARD			X-4941-720-1	PANEL ASSY, FRONT (E511:Canadian)	
5	4-928-635-02	SCREW, +BV (2.6X8) TAPPING			X-4941-721-1	PANEL ASSY, FRONT (E511:E, AUS)	
6	* 4-934-443-01	HOLDER (FL TUBE)		14	X-4941-734-1	KNOB ASSY	
7	* 4-921-941-21	CUSHION (FL)		15	4-943-420-11	KNOB (DIA. 19)	
8	* A-4345-114-A	CONTROL BOARD, COMPLETE (E511:US, Canadian)		16	* 4-929-030-11	RING (DIA. 58A) ORNAMENTAL (E511:E, AUS)	
	* A-4345-117-A	CONTROL BOARD, COMPLETE (E511:E, AUS)		FL101	1-519-664-11	INDICATOR TUBE, FLUORESCENT	
	* A-4345-184-A	CONTROL BOARD, COMPLETE (E611)					

3-2. BACK PANEL SECTION



<p>Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.</p>	<p>Note: Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
--	--

Ref. No.	Part No.	Description	Remar
51	* 1-639-980-12	CONNECTOR BOARD	
52	* A-4345-115-A	POWER BOARD, COMPLETE	(E511:E)
	* A-4345-565-A	POWER BOARD, COMPLETE	(E511:AUS)
	* A-4345-176-A	POWER BOARD, COMPLETE	
			(E511:US, Canadian/E611)
53	* 3-703-571-11	BUSHING (S) (4516), CORD	(E511:E)
	* 3-703-244-00	BUSHING (2104), CORD	
			(E511:US, Canadian, AUS/E611)
54	* 3-332-563-01	BRACKET (P)	
55	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
56	* 1-639-985-12	SUB BOARD	
57	△ 1-569-007-11	ADAPTOR, CONVERSION 2P	(E511:E)
58	1-535-530-11	PLUG, JUMPER	
59	* A-4345-172-A	VIDEO MAIN BOARD, COMPLETE	(E611)
	* A-4345-213-A	VIDEO MAIN BOARD, COMPLETE	
			(E511:US, Canadian, AUS)
	* A-4345-563-A	VIDEO MAIN BOARD, COMPLETE	(E511:E)

Ref. No.	Part No.	Description	Remark
60	3-706-165-00	SCREW	
61	* 4-945-755-01	PANEL, BACK (E611)	
	* 4-945-755-11	PANEL, BACK (E511:US, Canadian)	
	* 4-945-755-21	PANEL, BACK (E511:E)	
	* 4-945-755-32	PANEL, BACK (E511:AUS)	
62	X-4885-950-2	FOOT ASSY (E511:Canadian)	
63	* A-4345-112-A	SURROUND BOARD, COMPLETE (E511)	
	* A-4345-171-A	SURROUND BOARD, COMPLETE (E611)	
64	4-933-601-01	FOOT (E511:US, E, AUS/E611)	
65	4-923-836-11	CUSHION (E511:Canadian)	
66	* 3-346-265-11	HOLDER, PC BOARD	
CNP901	△ 1-574-902-11	CORD, POWER (E511:E)	
	△ 1-590-083-11	CORD, POWER (E511:AUS)	
	△ 1-590-771-11	CORD, POWER (E511:US, Canadian/E611)	
T901	△ 1-450-592-11	TRANSFORMER, POWER	
	(E511:US, Canadian/E611)		
	△ 1-450-593-11	TRANSFORMER, POWER (E511:E, AUS)	

SECTION 4

ELECTRICAL PARTS LIST

CONNECTOR

CONTROL

NOTE:

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- SEMICONDUCTORS
In each case, μ : μ , for example:
 $\mu A...$: $\mu A...$; $\mu PA...$, $\mu PA...$,
 $\mu PB...$, $\mu PB...$, $\mu PC...$, $\mu PC...$,
 $\mu PD...$, $\mu PD...$
- CAPACITORS :
 μF : μF
- COILS
 μH : μH

AUS : Australian

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark	
	* 1-639-980-11	CONNECTOR BOARD	*****				D107	8-719-912-20	DIODE	1SS120				
		*****					D108	8-719-912-20	DIODE	1SS120				
< CONNECTOR >														
CN901	* 1-565-483-11	CONNECTOR, BOARD TO BOARD 7P					D109	8-719-912-20	DIODE	1SS120				
CN902	* 1-565-483-11	CONNECTOR, BOARD TO BOARD 7P					D110	8-719-912-20	DIODE	1SS120 (E511)				

	* A-4345-114-A	CONTROL BOARD, COMPLETE	(E511:US, Canadian)				D111	8-719-912-20	DIODE	1SS120 (E611)				
	* A-4345-117-A	CONTROL BOARD, COMPLETE	(E511:E, AUS)				D112	8-719-985-53	DIODE	HZS4ALL				
	* A-4345-184-A	CONTROL BOARD, COMPLETE	(E611)				D113	8-719-985-53	DIODE	HZS4ALL				
*****							D115	8-719-912-20	DIODE	1SS120				
	* 4-921-941-21	CUSHION (FL)					D116	8-719-912-20	DIODE	1SS120				
	* 4-934-443-01	HOLDER (FL TUBE)					D120	8-719-311-60	DIODE	SEL2810D-C (STANDBY) (E511:E, AUS)				
< CAPACITOR >														
C101	1-124-465-00	ELECT	0.47 μ F	20%	50V		FL101	1-519-664-11	INDICATOR TUBE, FLUORESCENT					
C102	1-136-165-11	FILM	0.1 μ F	5%	50V				< IC >					
C104	1-124-443-00	ELECT	100 μ F	20%	10V		IC101	8-759-154-47	IC	μ PD75206GF-718-3BE				
C105	1-130-495-00	MYLAR	0.1 μ F	5%	50V				< TRANSISTOR >					
C106	1-130-495-00	MYLAR	0.1 μ F	5%	50V		Q101	8-729-900-36	TRANSISTOR	DTC124ES				
< CONNECTOR >							Q102	8-729-900-63	TRANSISTOR	DTA124ES				
							Q103	8-729-620-05	TRANSISTOR	2SC2603-EF				
							Q104	8-729-900-63	TRANSISTOR	DTA124ES (E511:E, AUS)				
< DIODE >														
D101	8-719-912-20	DIODE	1SS120					< RESISTOR >						
D102	8-719-912-20	DIODE	1SS120					R101	1-247-903-00	CARBON	1M	5%	1/4W	
D103	8-719-912-20	DIODE	1SS120					R102	1-249-429-11	CARBON	10K	5%	1/4W	
D104	8-719-912-20	DIODE	1SS120					R103	1-247-895-00	CARBON	470K	5%	1/4W	
D105	8-719-912-20	DIODE	1SS120					R105	1-249-411-11	CARBON	330	5%	1/4W (E511:E, AUS)	
D106	8-719-912-20	DIODE	1SS120					R106	1-249-417-11	CARBON	1K	5%	1/4W	
								R107	1-249-411-11	CARBON	330	5%	1/4W	
								R108	1-249-411-11	CARBON	330	5%	1/4W	
								R109	1-249-411-11	CARBON	330	5%	1/4W	
								R110	1-249-411-11	CARBON	330	5%	1/4W	
								R111	1-249-425-11	CARBON	4.7K	5%	1/4W	

CONTROL

FRONT

FRONT

POWER

Ref. No.	Part No.	Description			Remark
R481	1-249-431-11	CARBON	15K	5%	1/4W
R482	1-247-870-11	CARBON	43K	5%	1/4W
R483	1-249-403-11	CARBON	68	5%	1/4W

< VARIABLE RESISTOR >

RV302	1-238-777-11	RES, BAR, CARBON 250K (INPUT BALANCE) (E511)
RV303	1-237-881-11	RES, VAR, CARBON 100K/100K (TREBLE)
RV304	1-237-881-11	RES, VAR, CARBON 100K/100K (BASE)
RV305	1-241-022-11	RES, VAR, CARBON 150K/150K (BALANCE)

< SWITCH >

S117	1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)
S118	1-554-303-21	SWITCH, TACTILE (DRLC) (E611)

- * A-4345-115-A POWER BOARD, COMPLETE (E511:E)
- * A-4345-176-A POWER BOARD, COMPLETE (E511:US, Canadian/E611)
- * A-4345-565-A POWER BOARD, COMPLETE (E511:AUS)

< CAPACITOR >

C900	1-124-927-11	ELECT	4.7uF	20%	100V
C901	1-126-104-11	ELECT	470uF	20%	35V
C902	1-124-913-11	ELECT	470uF	20%	50V
C903	1-130-487-00	MYLAR	0.022uF	5%	50V
C904	1-126-946-11	ELECT	6800uF	20%	25V
C905	1-124-564-11	ELECT	4700uF	20%	25V
C906	1-126-101-11	ELECT	100uF	20%	16V
C907	1-126-101-11	ELECT	100uF	20%	16V
C908	1-124-477-11	ELECT	47uF	20%	25V
C909	1-124-119-00	ELECT	330uF	20%	16V
C910	1-124-907-11	ELECT	10uF	20%	50V
C911	1-124-477-11	ELECT	47uF	20%	25V
C912	1-130-487-00	MYLAR	0.022uF	5%	50V
C913	1-130-487-00	MYLAR	0.022uF	5%	50V
C914	1-130-487-00	MYLAR	0.022uF	5%	50V
C915	1-130-487-00	MYLAR	0.022uF	5%	50V
C916	1-162-282-31	CERAMIC	100PF	10%	50V
C917	1-124-477-11	ELECT	47uF	20%	25V
C918	1-124-477-11	ELECT	47uF	20%	25V
C919	1-124-903-11	ELECT	1uF	20%	50V
C920	1-130-487-00	MYLAR	0.022uF	5%	50V
C921	1-124-464-11	ELECT	0.22uF	20%	50V
C922	△ 1-161-744-00	CERAMIC	0.01uF		400V
C923	1-126-936-11	ELECT	3300uF	20%	16V
C925	1-124-925-11	ELECT	2.2uF	20%	100V

Ref. No.	Part No.	Description			Remark
C926	1-124-925-11	ELECT	2.2uF	20%	100V
C930	1-124-907-11	ELECT	10uF	20%	50V
C999	△ 1-161-744-00	CERAMIC	0.01uF		400V

< CONNECTOR >

CN901	1-560-944-00	PIN, CONNECTOR 7P
CNJ901	△ 1-540-040-11	OUTLET, AC (NONPOLAR) (2P) (E511:E, AUS)
CNJ901	△ 1-540-059-11	OUTLET, AC (POLAR) (E511:US, Canadian/E611)

CNJ902	△ 1-540-040-11	OUTLET, AC (NONPOLAR) (2P) (E511:E, AUS)
CNJ902	△ 1-540-059-11	OUTLET, AC (POLAR) (E511:US, Canadian/E611)

CNP902	* 1-573-565-11	PIN, CONNECTOR 5P (E511:E)
CNP903	* 1-573-565-11	PIN, CONNECTOR 5P (E511:E)

< DIODE >

D901	8-719-200-77	DIODE	10E2N
D902	8-719-200-77	DIODE	10E2N
D903	8-719-934-22	DIODE	HZS30-2L
D904	8-719-200-77	DIODE	10E2N
D905	8-719-200-77	DIODE	10E2N

D906	8-719-200-77	DIODE	10E2N
D907	8-719-200-77	DIODE	10E2N
D908	8-719-001-85	DIODE	UZL-12H3
D909	8-719-001-85	DIODE	UZL-12H3
D910	8-719-933-41	DIODE	HZS6C3L

D911	8-719-200-77	DIODE	10E2N
D912	8-719-200-77	DIODE	10E2N
D913	8-719-200-77	DIODE	10E2N
D914	8-719-200-77	DIODE	10E2N
D915	8-719-912-20	DIODE	1SS120

D916	8-719-933-41	DIODE	HZS6C3L
D917	8-719-933-41	DIODE	HZS6C3L
D918	8-719-914-11	DIODE	HZ4ALL
D919	8-719-912-20	DIODE	1SS120
D920	8-719-912-20	DIODE	1SS120
D930	8-719-912-20	DIODE	1SS120

< CONNECTOR >

DR102	* 1-564-342-11	PIN, CONNECTOR 8P
DR801	* 1-564-338-61	PIN, CONNECTOR 4P

< TRANSISTOR >			
Q901	8-729-900-36	TRANSISTOR	DTC124ES
Q902	8-729-900-63	TRANSISTOR	DTA124ES
Q903	8-729-900-36	TRANSISTOR	DTC124ES
Q904	8-729-900-63	TRANSISTOR	DTA124ES
Q905	8-729-209-15	TRANSISTOR	2SD2012

Note:
The components identified by mark **△** or dotted line with mark **△** are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque **△** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

POWER

M-VOL

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
Q906	8-729-111-67	TRANSISTOR	2SB1094-L					< SWITCH >			
Q907	8-729-209-15	TRANSISTOR	2SD2012					S901 \triangle 1-572-009-21 SELECTOR, VOLTAGE (E511:E)			
Q908	8-729-900-63	TRANSISTOR	DTA124ES					< TRANSFORMER >			
Q909	8-729-801-93	TRANSISTOR	2SD1387-3					T901 \triangle 1-450-592-11 TRANSFORMER, POWER (E511:US, Canadian/E611)			
Q910	8-729-801-93	TRANSISTOR	2SD1387-3					T901 \triangle 1-450-593-11 TRANSFORMER, POWER (E511:E, AUS)			
Q911	8-729-209-15	TRANSISTOR	2SD2012					< CONNECTOR >			
Q912	8-729-620-05	TRANSISTOR	2SC2603-EF					VH901 * 1-564-321-00 PIN, CONNECTOR 2P			
Q913	8-729-620-05	TRANSISTOR	2SC2603-EF					*****			
Q914	8-729-119-76	TRANSISTOR	2SA1175-HFE					* 1-639-984-11 M-VOL BOARD			
Q915	8-729-119-76	TRANSISTOR	2SA1175-HFE					*****			
Q916	8-729-620-05	TRANSISTOR	2SC2603-EF					< RESISTOR >			
Q920	8-729-102-14	TRANSISTOR	2SD1021-F					< CAPACITOR >			
Q930	8-729-900-36	TRANSISTOR	DTC124ES					C108 1-130-483-00 MYLAR 0.01uF 5% 50V			
								C109 1-130-483-00 MYLAR 0.01uF 5% 50V			
								C110 1-124-925-11 ELECT 2.2uF 20% 100V			
								C111 1-124-925-11 ELECT 2.2uF 20% 100V			
R900	1-247-852-11	CARBON	7.5K 5%	1/4W				< CONNECTOR >			
R901	\triangle 1-217-469-00	FUSIBLE	1 5%	1W F				CN301 * 1-568-834-11 SOCKET, CONNECTOR 15P			
R902	\triangle 1-217-469-00	FUSIBLE	1 5%	1W F				< DIODE >			
R903	1-249-413-11	CARBON	470 5%	1/4W				D200 8-719-933-41 DIODE HZS6C3L			
R904	1-249-429-11	CARBON	10K 5%	1/4W				< CONNECTOR >			
R905	1-249-429-11	CARBON	10K 5%	1/4W				R911 1-249-429-11 CARBON 10K 5% 1/4W			
R907	1-247-714-11	CARBON	1.2K 5%	1/4W				R912 1-249-437-11 CARBON 47K 5% 1/4W			
R908	1-249-414-11	CARBON	560 5%	1/4W				R913 1-249-437-11 CARBON 47K 5% 1/4W			
R909	1-247-716-11	CARBON	1.8K 5%	1/4W				R914 1-247-696-11 CARBON 47 5% 1/4W			
R910	1-249-417-11	CARBON	1K 5%	1/4W				R915 1-249-417-11 CARBON 1K 5% 1/4W			
R916	1-249-437-11	CARBON	47K 5%	1/4W				< RESISTOR >			
R917	1-249-433-11	CARBON	22K 5%	1/4W				R916 1-249-437-11 CARBON 47K 5% 1/4W			
R918	1-249-429-11	CARBON	10K 5%	1/4W				R917 1-249-433-11 CARBON 22K 5% 1/4W			
R919	1-249-429-11	CARBON	10K 5%	1/4W				R918 1-249-426-11 CARBON 5.6K 5% 1/4W			
R920	1-249-417-11	CARBON	1K 5%	1/4W				R919 1-249-426-11 CARBON 5.6K 5% 1/4W			
R921	1-249-429-11	CARBON	10K 5%	1/4W				R921 1-249-429-11 CARBON 10K 5% 1/4W			
R922	1-249-426-11	CARBON	5.6K 5%	1/4W				R922 1-249-426-11 CARBON 5.6K 5% 1/4W			
R923	1-249-426-11	CARBON	5.6K 5%	1/4W				< TRANSISTOR >			
R924	1-249-425-11	CARBON	4.7K 5%	1/4W				R923 1-249-426-11 CARBON 5.6K 5% 1/4W			
R925	1-249-417-11	CARBON	1K 5%	1/4W				R924 1-249-425-11 CARBON 4.7K 5% 1/4W			
R930	1-249-421-11	CARBON	2.2K 5%	1/4W				R925 1-249-417-11 CARBON 1K 5% 1/4W			
R931	\triangle 1-213-064-61	FUSIBLE	15 5%	1W F				< RELAY >			
RY901	\triangle 1-515-617-11	RELAY (E511:E, AUS)						< VARIABLE RESISTOR >			
RY901	\triangle 1-515-701-11	RELAY (E511:US, Canadian/E611)						RV301 1-241-563-11 RES, VAR, CARBON 100KX4			

Note:
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SUB

SURROUND(E511)

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark	
	* 1-639-985-11	SUB BOARD				C253	1-124-907-11	ELECT	10uF	20%	50V	
		*****				C254	1-162-284-31	CERAMIC	150PF	10%	50V	
		< CAPACITOR >				C255	1-124-925-11	ELECT	2.2uF	20%	100V	
	C001	1-162-215-11	CERAMIC	47PF	10%	50V	C256	1-130-480-00	MYLAR	0.0056uF	5%	50V
	C051	1-162-215-11	CERAMIC	47PF	10%	50V	C257	1-106-347-00	MYLAR	1500PF	5%	200V
	C408	1-124-907-11	ELECT	10uF	20%	50V	C258	1-124-902-00	ELECT	0.47uF	20%	50V
	C409	1-124-907-11	ELECT	10uF	20%	50V	C259	1-164-097-11	CERAMIC	0.022uF		50V
	C458	1-124-907-11	ELECT	10uF	20%	50V	C260	1-124-477-11	ELECT	47uF	20%	25V
	C459	1-124-907-11	ELECT	10uF	20%	50V	C301	1-124-907-11	ELECT	10uF	20%	50V
	C460	1-124-927-11	ELECT	4.7uF	20%	100V	C302	1-164-062-11	CERAMIC	47PF	5%	50V
		< CONNECTOR >				C303	1-124-907-11	ELECT	10uF	20%	50V	
	CN402	* 1-565-485-11	CONNECTOR, BOARD TO BOARD 9P			C308	1-130-480-00	MYLAR	0.0056uF	5%	50V	
		< IC >				C309	1-106-359-00	MYLAR	4700PF	5%	200V	
	IC402	8-759-634-50	IC	M5218AL		C310	1-164-082-11	CERAMIC	560PF	10%	50V	
		< RESISTOR >				C311	1-124-907-11	ELECT	10uF	20%	50V	
	R414	1-249-429-11	CARBON	10K	5%	1/4W	C312	1-164-083-11	CERAMIC	680PF	10%	50V
	R415	1-249-429-11	CARBON	10K	5%	1/4W	C313	1-136-167-00	FILM	0.15uF	5%	50V
	R416	1-249-440-11	CARBON	82K	5%	1/4W	C314	1-164-075-11	CERAMIC	150PF	10%	50V
	R417	1-249-441-11	CARBON	100K	5%	1/4W	C315	1-164-097-11	CERAMIC	0.022uF		50V
	R464	1-249-429-11	CARBON	10K	5%	1/4W	C316	1-164-085-11	CERAMIC	0.001uF	10%	50V
	R465	1-249-422-11	CARBON	2.7K	5%	1/4W	C317	1-124-927-11	ELECT	4.7uF	20%	100V
	R466	1-249-440-11	CARBON	82K	5%	1/4W	C318	1-124-907-11	ELECT	10uF	20%	50V
	R467	1-249-441-11	CARBON	100K	5%	1/4W	C319	1-124-927-11	ELECT	4.7uF	20%	100V
		*****				C320	1-124-907-11	ELECT	10uF	20%	50V	
						C321	1-124-907-11	ELECT	10uF	20%	50V	
						C322	1-130-489-00	MYLAR	0.033uF	5%	50V	
						C323	1-106-359-00	MYLAR	4700PF	5%	200V	
						C324	1-130-477-00	MYLAR	0.0033uF	5%	50V	
						C325	1-136-163-00	FILM	0.068uF	5%	50V	
						C326	1-136-169-00	FILM	0.22uF	5%	50V	
						C327	1-164-056-11	CERAMIC	27PF	5%	50V	
						C328	1-164-056-11	CERAMIC	27PF	5%	50V	
						C329	1-124-472-11	ELECT	470uF	20%	10V	
						C330	1-124-927-11	ELECT	4.7uF	20%	100V	
						C331	1-164-085-11	CERAMIC	0.001uF	10%	50V	
	C000	1-161-494-00	CERAMIC	0.022uF		25V	C332	1-164-097-11	CERAMIC	0.022uF		50V
	C004	1-124-927-11	ELECT	4.7uF	20%	100V	C333	1-164-075-11	CERAMIC	150PF	10%	50V
	C005	1-124-927-11	ELECT	4.7uF	20%	100V	C334	1-126-176-11	ELECT	220uF	20%	10V
	C007	1-136-177-00	FILM	1uF	5%	50V	C335	1-126-176-11	ELECT	220uF	20%	10V
	C202	1-164-072-11	CERAMIC	120PF	5%	50V	C336	1-124-120-11	ELECT	220uF	20%	25V
	C203	1-124-907-11	ELECT	10uF	20%	50V	C337	1-136-165-00	FILM	0.1uF	5%	50V
	C204	1-162-284-31	CERAMIC	150PF	10%	50V	C338	1-124-443-00	ELECT	100uF	20%	10V
	C205	1-124-925-11	ELECT	2.2uF	20%	100V	C339	1-124-907-11	ELECT	10uF	20%	50V
	C206	1-130-480-00	MYLAR	0.0056uF	5%	50V	C351	1-124-907-11	ELECT	10uF	20%	50V
	C207	1-106-347-00	MYLAR	1500PF	5%	200V	C352	1-164-062-11	CERAMIC	47PF	5%	50V
	C208	1-124-902-00	ELECT	0.47uF	20%	50V	C353	1-124-907-11	ELECT	10uF	20%	50V
	C209	1-164-097-11	CERAMIC	0.022uF		50V	C380	1-124-907-11	ELECT	10uF	20%	50V
	C210	1-124-477-11	ELECT	47uF	20%	25V	C381	1-124-907-11	ELECT	10uF	20%	50V
	C231	1-124-907-11	ELECT	10uF	20%	50V	C383	1-136-169-00	FILM	0.22uF	5%	50V
	C252	1-164-072-11	CERAMIC	120PF	5%	50V						

SURROUND(E511)

Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark		
C385	1-130-489-00	MYLAR	0.033uF	5%	50V	IC309	8-759-801-01	IC	LC4966	
C398	1-124-907-11	ELECT	10uF	20%	50V	IC401	8-759-634-50	IC	M5218AL	
C399	1-124-907-11	ELECT	10uF	20%	50V	IC403	8-759-634-50	IC	M5218AL	
C400	1-124-907-11	ELECT	10uF	20%	50V	IC404	8-759-820-11	IC	LC7535	
C401	1-124-927-11	ELECT	4.7uF	20%	100V	< JACK >				
C402	1-164-058-11	CERAMIC	33PF	5%	50V	PJ200	1-565-320-11	JACK, PIN 6P	(PHONO, TUNER, CD IN)	
C403	1-124-477-11	ELECT	47uF	20%	25V	PJ201	1-565-320-11	JACK, PIN 6P	(TAPE/DAT, VIDEO3/LD IN)	
C404	1-124-903-11	ELECT	1uF	20%	50V	PJ202	1-565-258-11	JACK, PIN 4P	(VIDEO2 IN)	
C405	1-124-903-11	ELECT	1uF	20%	50V	PJ203	1-565-258-11	JACK, PIN 4P	(VIDEO1 IN)	
C410	1-124-927-11	ELECT	4.7uF	20%	100V	PJ204	1-563-562-11	JACK, PIN 4P	(GRAPHIC-EQ IN/OUT)	
C411	1-124-927-11	ELECT	4.7uF	20%	100V	PJ802	1-565-352-21	JACK, PIN 2P	(FRONT OUT)	
C412	1-124-927-11	ELECT	4.7uF	20%	100V	PJ803	1-565-406-21	JACK, PIN 1P	(REAR OUT)	
C413	1-124-927-11	ELECT	4.7uF	20%	100V	< TRANSISTOR >				
C414	1-124-477-11	ELECT	47uF	20%	25V	Q105	8-729-141-26	TRANSISTOR	2SC3622A-LK	
C450	1-124-907-11	ELECT	10uF	20%	50V	Q106	8-729-141-26	TRANSISTOR	2SC3622A-LK	
C451	1-124-927-11	ELECT	4.7uF	20%	100V	Q107	8-729-141-26	TRANSISTOR	2SC3622A-LK	
C452	1-164-058-11	CERAMIC	33PF	5%	50V	Q304	8-729-900-36	TRANSISTOR	DTC124ES	
C453	1-124-477-11	ELECT	47uF	20%	25V	Q305	8-729-209-15	TRANSISTOR	2SD2012	
C454	1-124-903-11	ELECT	1uF	20%	50V	Q310	8-729-900-63	TRANSISTOR	DTA124ES	
C455	1-124-903-11	ELECT	1uF	20%	50V	Q311	8-729-900-36	TRANSISTOR	DTC124ES	
< CONNECTOR >					Q312	8-729-900-63	TRANSISTOR	DTA124ES		
CN102	1-568-802-11	SOCKET, CONNECTOR	19P		Q313	8-729-900-36	TRANSISTOR	DTC124ES		
CN302	* 1-568-834-11	SOCKET, CONNECTOR	15P		Q314	8-729-900-63	TRANSISTOR	DTA124ES		
CN401	* 1-560-284-11	CONNECTOR, (PIN)	9P		Q315	8-729-900-36	TRANSISTOR	DTC124ES		
CN802	1-566-211-11	PIN, CONNECTOR	4P		Q316	8-729-900-63	TRANSISTOR	DTA124ES		
			(POWER AMP CONTROL OUT)		Q330	8-729-900-36	TRANSISTOR	DTC124ES		
CN902	1-560-944-00	PIN, CONNECTOR	7P		Q331	8-729-900-36	TRANSISTOR	DTC124ES		
< DIODE >					Q332	8-729-900-36	TRANSISTOR	DTC124ES		
D401	8-719-912-20	DIODE	1SS120		Q333	8-729-900-36	TRANSISTOR	DTC124ES		
D402	8-719-912-20	DIODE	1SS120		Q401	8-729-224-61	TRANSISTOR	2SK246-Y		
< CONNECTOR >					Q402	8-729-620-05	TRANSISTOR	2SC2603-EF		
DR101	* 1-564-338-00	PIN, CONNECTOR	4P		Q403	8-729-141-26	TRANSISTOR	2SC3622A-LK		
DR301	* 1-506-503-11	PIN, CONNECTOR	9P		Q406	8-729-141-26	TRANSISTOR	2SC3622A-LK		
DR501	* 1-564-339-61	PIN, CONNECTOR	5P		Q451	8-729-224-61	TRANSISTOR	2SK246-Y		
DR802	* 1-564-337-00	PIN, CONNECTOR	3P		Q452	8-729-620-05	TRANSISTOR	2SC2603-EF		
< IC >					Q453	8-729-141-26	TRANSISTOR	2SC3622ATP-LK		
IC200	8-759-634-50	IC	M5218AL		Q805	8-729-900-63	TRANSISTOR	DTA124ES		
IC204	8-759-801-01	IC	LC4966		Q806	8-729-900-63	TRANSISTOR	DTA124ES		
IC206	8-759-805-14	IC	LC7822		Q807	8-729-900-63	TRANSISTOR	DTA124ES		
IC254	8-759-801-01	IC	LC4966		< RESISTOR >					
IC301	8-759-634-50	IC	M5218AL		R001	1-249-441-11	CARBON	100K	5%	1/4W
IC303	8-759-823-63	IC	LV1001M		R002	1-249-441-11	CARBON	100K	5%	1/4W
IC304	8-759-821-13	IC	LM3364K-15		R003	1-249-417-11	CARBON	1K	5%	1/4W
IC307	8-759-634-50	IC	M5218AL		R004	1-249-417-11	CARBON	1K	5%	1/4W
					R145	1-249-425-11	CARBON	4.7K	5%	1/4W
					R146	1-249-425-11	CARBON	4.7K	5%	1/4W

SURROUND(E511)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R147	1-249-425-11	CARBON	4.7K 5% 1/4W	R314	1-249-423-11	CARBON	3.3K 5% 1/4W
R148	1-249-433-11	CARBON	22K 5% 1/4W	R315	1-249-437-11	CARBON	47K 5% 1/4W
R149	1-249-433-11	CARBON	22K 5% 1/4W	R316	1-247-903-00	CARBON	1M 5% 1/4W
R150	1-249-433-11	CARBON	22K 5% 1/4W	R317	1-249-429-11	CARBON	10K 5% 1/4W
R202	1-249-417-11	CARBON	1K 5% 1/4W	R318	1-247-887-00	CARBON	220K 5% 1/4W
R203	1-249-437-11	CARBON	47K 5% 1/4W	R319	1-249-429-11	CARBON	10K 5% 1/4W
R204	1-249-416-11	CARBON	820 5% 1/4W	R320	1-249-429-11	CARBON	10K 5% 1/4W
R205	1-247-897-11	CARBON	560K 5% 1/4W	R321	1-249-429-11	CARBON	10K 5% 1/4W
R206	1-249-437-11	CARBON	47K 5% 1/4W	R333	1-249-429-11	CARBON	10K 5% 1/4W
R207	1-249-441-11	CARBON	100K 5% 1/4W	R340	1-249-437-11	CARBON	47K 5% 1/4W
R208	1-249-409-11	CARBON	220 5% 1/4W	R341	1-249-437-11	CARBON	47K 5% 1/4W
R209	1-249-418-11	CARBON	1.2K 5% 1/4W	R342	1-249-437-11	CARBON	47K 5% 1/4W
R210	1-249-421-11	CARBON	2.2K 5% 1/4W	R346	1-249-441-11	CARBON	100K 5% 1/4W
R211	1-249-413-11	CARBON	470 5% 1/4W	R348	1-249-437-11	CARBON	47K 5% 1/4W
R212	1-249-421-11	CARBON	2.2K 5% 1/4W	R351	1-249-435-11	CARBON	33K 5% 1/4W
R213	1-249-421-11	CARBON	2.2K 5% 1/4W	R352	1-247-887-00	CARBON	220K 5% 1/4W
R214	1-249-413-11	CARBON	470 5% 1/4W	R353	1-249-405-11	CARBON	100 5% 1/4W
R215	1-249-418-11	CARBON	1.2K 5% 1/4W	R370	1-249-425-11	CARBON	4.7K 5% 1/4W
R216	1-249-413-11	CARBON	470 5% 1/4W	R371	1-249-430-11	CARBON	12K 5% 1/4W
R217	1-249-418-11	CARBON	1.2K 5% 1/4W	R372	1-247-903-00	CARBON	1M 5% 1/4W
R218	1-249-413-11	CARBON	470 5% 1/4W	R373	1-247-903-00	CARBON	1M 5% 1/4W
R219	1-249-418-11	CARBON	1.2K 5% 1/4W	R374	1-247-887-00	CARBON	220K 5% 1/4W
R224	1-249-429-11	CARBON	10K 5% 1/4W	R375	1-247-887-00	CARBON	220K 5% 1/4W
R252	1-249-417-11	CARBON	1K 5% 1/4W	R376	1-247-887-00	CARBON	220K 5% 1/4W
R253	1-249-437-11	CARBON	47K 5% 1/4W	R377	1-247-887-00	CARBON	220K 5% 1/4W
R254	1-249-416-11	CARBON	820 5% 1/4W	R378	1-249-441-11	CARBON	100K 5% 1/4W
R255	1-247-897-11	CARBON	560K 5% 1/4W	R379	1-249-429-11	CARBON	10K 5% 1/4W
R256	1-249-437-11	CARBON	47K 5% 1/4W	R380	1-249-429-11	CARBON	10K 5% 1/4W
R257	1-249-441-11	CARBON	100K 5% 1/4W	R385	1-249-413-11	CARBON	470 5% 1/4W
R258	1-249-409-11	CARBON	220 5% 1/4W	R399	1-249-441-11	CARBON	100K 5% 1/4W
R259	1-249-418-11	CARBON	1.2K 5% 1/4W	R401	1-247-887-00	CARBON	220K 5% 1/4W
R260	1-249-421-11	CARBON	2.2K 5% 1/4W	R402	1-249-425-11	CARBON	4.7K 5% 1/4W
R261	1-249-413-11	CARBON	470 5% 1/4W	R403	1-249-436-11	CARBON	39K 5% 1/4W
R262	1-249-421-11	CARBON	2.2K 5% 1/4W	R404	1-249-441-11	CARBON	100K 5% 1/4W
R263	1-249-421-11	CARBON	2.2K 5% 1/4W	R405	1-247-903-00	CARBON	1M 5% 1/4W
R264	1-249-413-11	CARBON	470 5% 1/4W	R406	1-249-405-11	CARBON	100 5% 1/4W
R265	1-249-418-11	CARBON	1.2K 5% 1/4W	R407	1-249-438-11	CARBON	56K 5% 1/4W
R266	1-249-413-11	CARBON	470 5% 1/4W	R408	1-249-426-11	CARBON	5.6K 5% 1/4W
R267	1-249-418-11	CARBON	1.2K 5% 1/4W	R409	1-249-412-11	CARBON	390 5% 1/4W
R268	1-249-413-11	CARBON	470 5% 1/4W	R410	1-249-421-11	CARBON	2.2K 5% 1/4W
R269	1-249-418-11	CARBON	1.2K 5% 1/4W	R412	1-249-437-11	CARBON	47K 5% 1/4W
R301	1-249-435-11	CARBON	33K 5% 1/4W	R413	1-249-437-11	CARBON	47K 5% 1/4W
R302	1-247-887-00	CARBON	220K 5% 1/4W	R418	1-249-417-11	CARBON	1K 5% 1/4W
R303	1-249-405-11	CARBON	100 5% 1/4W	R419	1-249-405-11	CARBON	100 5% 1/4W
R309	1-249-428-11	CARBON	8.2K 5% 1/4W	R420	1-249-417-11	CARBON	1K 5% 1/4W
R310	1-249-428-11	CARBON	8.2K 5% 1/4W	R427	1-247-887-00	CARBON	220K 5% 1/4W
R311	1-249-431-11	CARBON	15K 5% 1/4W	R428	1-249-429-11	CARBON	10K 5% 1/4W
R312	1-249-428-11	CARBON	8.2K 5% 1/4W	R429	1-249-439-11	CARBON	68K 5% 1/4W
R313	1-249-436-11	CARBON	39K 5% 1/4W	R451	1-247-887-00	CARBON	220K 5% 1/4W

SURROUND(E511)

SURROUND(E611)

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R452	1-249-425-11	CARBON	4.7K	5%	1/4W	C208	1-124-902-00	ELECT	0.47uF	20%	50V
R453	1-249-436-11	CARBON	39K	5%	1/4W	C209	1-164-097-11	CERAMIC	0.022uF	50V	
R454	1-249-441-11	CARBON	100K	5%	1/4W	C210	1-124-477-11	ELECT	47uF	20%	25V
R455	1-247-903-00	CARBON	1M	5%	1/4W	C223	1-124-927-11	ELECT	4.7uF	20%	100V
R456	1-249-405-11	CARBON	100	5%	1/4W	C225	1-124-927-11	ELECT	4.7uF	20%	100V
R457	1-249-438-11	CARBON	56K	5%	1/4W	C227	1-124-927-11	ELECT	4.7uF	20%	100V
R458	1-249-426-11	CARBON	5.6K	5%	1/4W	C229	1-124-927-11	ELECT	4.7uF	20%	100V
R459	1-249-412-11	CARBON	390	5%	1/4W	C230	1-124-927-11	ELECT	4.7uF	20%	100V
R460	1-249-421-11	CARBON	2.2K	5%	1/4W	C231	1-124-907-11	ELECT	10uF	20%	50V
R468	1-249-417-11	CARBON	1K	5%	1/4W	C252	1-164-072-11	CERAMIC	120PF	5%	50V
R469	1-249-405-11	CARBON	100	5%	1/4W	C253	1-124-907-11	ELECT	10uF	20%	50V
R470	1-249-417-11	CARBON	1K	5%	1/4W	C254	1-162-284-31	CERAMIC	150PF	10%	50V
R471	1-249-417-11	CARBON	1K	5%	1/4W	C255	1-124-925-11	ELECT	2.2uF	20%	100V
R472	1-249-405-11	CARBON	100	5%	1/4W	C256	1-130-480-00	MYLAR	0.0056uF	5%	50V
R473	1-249-417-11	CARBON	1K	5%	1/4W	C257	1-106-347-00	MYLAR	1500PF	5%	200V
R477	1-247-887-00	CARBON	220K	5%	1/4W	C258	1-124-902-00	ELECT	0.47uF	20%	50V
R478	1-249-429-11	CARBON	10K	5%	1/4W	C259	1-164-097-11	CERAMIC	0.022uF	50V	
R479	1-249-439-11	CARBON	68K	5%	1/4W	C260	1-124-477-11	ELECT	47uF	20%	25V
R816	1-249-433-11	CARBON	22K	5%	1/4W	C273	1-124-927-11	ELECT	4.7uF	20%	100V
R819	1-249-433-11	CARBON	22K	5%	1/4W	C275	1-124-927-11	ELECT	4.7uF	20%	100V
R820	1-249-433-11	CARBON	22K	5%	1/4W	C277	1-124-927-11	ELECT	4.7uF	20%	100V
R1001	1-249-427-11	CARBON	6.8K	5%	1/4W	C279	1-124-927-11	ELECT	4.7uF	20%	100V
R1002	1-249-423-11	CARBON	3.3K	5%	1/4W	C280	1-124-927-11	ELECT	4.7uF	20%	100V
R2001	1-249-411-11	CARBON	330		1/4W	C301	1-124-907-11	ELECT	10uF	20%	50V
R2051	1-249-411-11	CARBON	330		1/4W	C302	1-164-062-11	CERAMIC	47PF	5%	50V
< VARIABLE RESISTOR >											
RV301	1-241-563-11	RES, VAR, CARBON 100KX4 (INCLUDING VOL MOTOR) (MASTER VOLUME)				C303	1-124-907-11	ELECT	10uF	20%	50V
< CERAMIC >											
X301	1-567-132-00	RESONATOR, CERAMIC		8.00MHz		C308	1-130-480-00	MYLAR	0.0056uF	5%	50V

* A-4345-171-A SURROUND BOARD, COMPLETE (E611)											

< CAPACITOR >											
C000	1-161-494-00	CERAMIC	0.022uF		25V	C312	1-164-083-11	CERAMIC	680PF	10%	50V
C004	1-124-927-11	ELECT	4.7uF	20%	100V	C313	1-136-167-00	FILM	0.15uF	5%	50V
C005	1-124-927-11	ELECT	4.7uF	20%	100V	C314	1-164-075-11	CERAMIC	150PF	10%	50V
C007	1-136-177-00	FILM	1uF	5%	50V	C315	1-164-097-11	CERAMIC	0.022uF	50V	
C202	1-164-072-11	CERAMIC	120PF	5%	50V	C316	1-164-085-11	CERAMIC	0.001uF	10%	50V
C203	1-124-907-11	ELECT	10uF	20%	50V	C317	1-124-927-11	ELECT	4.7uF	20%	100V
C204	1-162-284-31	CERAMIC	150PF	10%	50V	C318	1-124-907-11	ELECT	10uF	20%	50V
C205	1-124-925-11	ELECT	2.2uF	20%	100V	C319	1-124-927-11	ELECT	4.7uF	20%	100V
C206	1-130-480-00	MYLAR	0.0056uF	5%	50V	C320	1-124-907-11	ELECT	10uF	20%	50V
C207	1-106-347-00	MYLAR	1500PF	5%	200V	C321	1-124-907-11	ELECT	10uF	20%	50V

C322											
C323											
C324											
C325											
C326											
C327											
C328											
C329											
C330											

SURROUND(E611)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark				
C331	1-164-085-11	CERAMIC	0.001uF 10%	50V	C399	1-124-907-11	ELECT	10uF 20%	50V		
C332	1-164-097-11	CERAMIC	0.022uF	50V	C400	1-124-907-11	ELECT	10uF 20%	50V		
C333	1-164-075-11	CERAMIC	150PF	10%	50V	C401	1-124-927-11	ELECT	4.7uF 20%	100V	
C334	1-126-176-11	ELECT	220uF	20%	10V	C402	1-164-058-11	CERAMIC	33PF 5%	50V	
C335	1-126-176-11	ELECT	220uF	20%	10V	C403	1-124-477-11	ELECT	47uF 20%	25V	
C336	1-124-120-11	ELECT	220uF	20%	25V	C404	1-124-903-11	ELECT	1uF 20%	50V	
C337	1-136-165-00	FILM	0.1uF	5%	50V	C405	1-124-903-11	ELECT	1uF 20%	50V	
C338	1-124-443-00	ELECT	100uF	20%	10V	C407	1-124-907-11	ELECT	10uF 20%	50V	
C339	1-124-907-11	ELECT	10uF	20%	50V	C410	1-124-927-11	ELECT	4.7uF 20%	100V	
C340	1-136-165-00	FILM	0.1uF	5%	50V	C411	1-124-927-11	ELECT	4.7uF 20%	100V	
C341	1-136-165-00	FILM	0.1uF	5%	50V	C412	1-124-927-11	ELECT	4.7uF 20%	100V	
C342	1-164-083-11	CERAMIC	680PF	10%	50V	C413	1-124-927-11	ELECT	4.7uF 20%	100V	
C343	1-136-165-00	FILM	0.1uF	5%	50V	C414	1-124-477-11	ELECT	47uF 20%	25V	
C344	1-136-165-00	FILM	0.1uF	5%	50V	C450	1-124-907-11	ELECT	10uF 20%	50V	
C345	1-164-083-11	CERAMIC	680PF	10%	50V	C451	1-124-927-11	ELECT	4.7uF 20%	100V	
C346	1-124-927-11	ELECT	4.7uF	20%	100V	C452	1-164-058-11	CERAMIC	33PF 5%	50V	
C347	1-136-169-00	FILM	0.22uF	5%	50V	C453	1-124-477-11	ELECT	47uF 20%	25V	
C348	1-136-169-00	FILM	0.22uF	5%	50V	C454	1-124-903-11	ELECT	1uF 20%	50V	
C349	1-136-171-00	FILM	0.33uF	5%	50V	C455	1-124-903-11	ELECT	1uF 20%	50V	
C350	1-136-171-00	FILM	0.33uF	5%	50V	C460	1-124-927-11	ELECT	4.7uF 20%	100V	
C351	1-124-907-11	ELECT	10uF	20%	50V	C461	1-124-927-11	ELECT	4.7uF 20%	100V	
C352	1-164-062-11	CERAMIC	47PF	5%	50V	C462	1-124-927-11	ELECT	4.7uF 20%	100V	
C353	1-124-907-11	ELECT	10uF	20%	50V	C463	1-124-927-11	ELECT	4.7uF 20%	100V	
C358	1-136-171-00	FILM	0.33uF	5%	50V	C2000	1-124-907-11	ELECT	10uF 20%	50V	
C359	1-136-171-00	FILM	0.33uF	5%	50V	< CONNECTOR >					
C360	1-164-097-11	CERAMIC	0.022uF		50V	CN102	1-568-802-11	SOCKET, CONNECTOR 19P			
C361	1-164-097-11	CERAMIC	0.022uF		50V	CN302	* 1-568-834-11	SOCKET, CONNECTOR 15P			
C362	1-164-097-11	CERAMIC	0.022uF		50V	CN401	* 1-560-284-11	CONNECTOR, (PIN) 9P			
C363	1-164-097-11	CERAMIC	0.022uF		50V	CN801	1-566-213-11	PIN, CONNECTOR 4P			
C364	1-136-165-00	FILM	0.1uF	5%	50V	CN802	1-566-211-11	PIN, CONNECTOR 4P			
C365	1-126-103-11	ELECT	470uF	20%	16V	CN902	1-560-944-00	PIN, CONNECTOR 7P			
C367	1-136-165-00	FILM	0.1uF	5%	50V	< DIODE >					
C369	1-124-927-11	ELECT	4.7uF	20%	100V	D401	8-719-912-20	DIODE	1SS120		
C370	1-136-169-00	FILM	0.22uF	5%	50V	D402	8-719-912-20	DIODE	1SS120		
C371	1-136-169-00	FILM	0.22uF	5%	50V	D2000	8-719-933-41	DIODE	HZS6C3L		
C372	1-124-907-11	ELECT	10uF	20%	50V	< CONNECTOR >					
C373	1-130-483-00	MYLAR	0.01uF	5%	50V	DR101	* 1-564-338-00	PIN, CONNECTOR 4P			
C374	1-124-907-11	ELECT	10uF	20%	50V	DR301	* 1-506-503-11	PIN, CONNECTOR 9P			
C375	1-130-483-00	MYLAR	0.01uF	5%	50V	DR501	* 1-564-339-61	PIN, CONNECTOR 5P			
C376	1-130-483-00	MYLAR	0.01uF	5%	50V	DR802	* 1-564-337-00	PIN, CONNECTOR 3P			
C377	1-124-907-11	ELECT	10uF	20%	50V	DR813	* 1-564-336-00	PIN, CONNECTOR 2P			
C378	1-124-907-11	ELECT	10uF	20%	50V	< IC >					
C379	1-124-907-11	ELECT	10uF	20%	50V	IC200	8-759-634-50	IC	M5218AL		
C380	1-124-907-11	ELECT	10uF	20%	50V	IC201	8-759-634-50	IC	M5218AL		
C381	1-124-907-11	ELECT	10uF	20%	50V	IC202	8-759-634-50	IC	M5218AL		
C382	1-136-165-00	FILM	0.1uF	5%	50V	IC203	8-759-634-50	IC	M5218AL		
C383	1-136-169-00	FILM	0.22uF	5%	50V						
C385	1-130-489-00	MYLAR	0.033uF	5%	50V						
C398	1-124-907-11	ELECT	10uF	20%	50V						

SURROUND(E611)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC204	8-759-801-01	IC LC4966		Q334	8-729-900-63	TRANSISTOR	DTA124ES
IC205	8-759-634-50	IC M5218AL		Q335	8-729-900-36	TRANSISTOR	DTC124ES
IC206	8-759-805-14	IC LC7822		Q336	8-729-900-63	TRANSISTOR	DTA124ES
IC207	8-759-000-48	IC MC14052BCP		Q337	8-729-900-36	TRANSISTOR	DTC124ES
IC254	8-759-801-01	IC LC4966		Q401	8-729-224-61	TRANSISTOR	2SK246-Y
IC301	8-759-634-50	IC M5218AL		Q402	8-729-620-05	TRANSISTOR	2SC2603-EF
IC302	8-759-801-01	IC LC4966		Q403	8-729-141-26	TRANSISTOR	2SC3622A-LK
IC303	8-759-823-63	IC LV1001M		Q404	8-729-141-26	TRANSISTOR	2SC3622A-LK
IC304	8-759-821-13	IC LM3364K-15		Q405	8-729-141-26	TRANSISTOR	2SC3622A-LK
IC307	8-759-634-50	IC M5218AL		Q406	8-729-141-26	TRANSISTOR	2SC3622A-LK
IC308	8-759-512-93	IC SSM2125		Q451	8-729-224-61	TRANSISTOR	2SK246-Y
IC309	8-759-801-01	IC LC4966		Q452	8-729-620-05	TRANSISTOR	2SC2603-EF
IC310	8-759-503-96	IC MSM59371RS		Q453	8-729-141-26	TRANSISTOR	2SC3622A-LK
IC311	8-759-801-01	IC LC4966		Q805	8-729-900-63	TRANSISTOR	DTA124ES
IC401	8-759-634-50	IC M5218AL		Q806	8-729-900-63	TRANSISTOR	DTA124ES
IC403	8-759-634-50	IC M5218AL		Q807	8-729-900-63	TRANSISTOR	DTA124ES
IC404	8-759-820-11	IC LC7535		< RESISTOR >			
< JACK >							
PJ200	1-565-320-11	JACK, PIN 6P (PHONO, TUNER, CD IN)		R001	1-249-441-11	CARBON	100K 5% 1/4W
PJ201	1-565-320-11	JACK, PIN 6P (TAPE/DAT, VIDEO 3/LD IN)		R002	1-249-441-11	CARBON	100K 5% 1/4W
PJ202	1-565-258-11	JACK, PIN 4P (VIDEO 2 IN)		R003	1-249-417-11	CARBON	1K 5% 1/4W
PJ203	1-565-258-11	JACK, PIN 4P (VIDEO 1 IN)		R004	1-249-417-11	CARBON	1K 5% 1/4W
PJ204	1-563-562-11	JACK, PIN 4P (GRAPHIC-EQ IN/OUT)		R145	1-249-425-11	CARBON	4.7K 5% 1/4W
PJ801	1-565-320-11	JACK, PIN 6P (FRONT, REAR, CENTER OUT)		R146	1-249-425-11	CARBON	4.7K 5% 1/4W
< TRANSISTOR >							
Q105	8-729-141-26	TRANSISTOR	2SC3622A-LK	R147	1-249-425-11	CARBON	4.7K 5% 1/4W
Q106	8-729-141-26	TRANSISTOR	2SC3622A-LK	R148	1-249-433-11	CARBON	22K 5% 1/4W
Q107	8-729-141-26	TRANSISTOR	2SC3622A-LK	R149	1-249-433-11	CARBON	22K 5% 1/4W
Q301	8-729-900-36	TRANSISTOR	DTC124ES	R150	1-249-433-11	CARBON	22K 5% 1/4W
Q302	8-729-900-63	TRANSISTOR	DTA124ES	R202	1-249-417-11	CARBON	1K 5% 1/4W
Q304	8-729-900-36	TRANSISTOR	DTC124ES	R203	1-249-437-11	CARBON	47K 5% 1/4W
Q305	8-729-209-15	TRANSISTOR	2SD2012	R204	1-249-416-11	CARBON	820 5% 1/4W
Q310	8-729-900-63	TRANSISTOR	DTA124ES	R205	1-247-897-11	CARBON	560K 5% 1/4W
Q311	8-729-900-36	TRANSISTOR	DTC124ES	R206	1-249-437-11	CARBON	47K 5% 1/4W
Q312	8-729-900-63	TRANSISTOR	DTA124ES	R207	1-249-441-11	CARBON	100K 5% 1/4W
Q313	8-729-900-36	TRANSISTOR	DTC124ES	R208	1-249-409-11	CARBON	220 5% 1/4W
Q314	8-729-900-63	TRANSISTOR	DTA124ES	R209	1-249-418-11	CARBON	1.2K 5% 1/4W
Q315	8-729-900-36	TRANSISTOR	DTC124ES	R210	1-249-421-11	CARBON	2.2K 5% 1/4W
Q316	8-729-900-63	TRANSISTOR	DTA124ES	R211	1-249-413-11	CARBON	470 5% 1/4W
Q317	8-729-900-36	TRANSISTOR	DTC124ES	R212	1-249-421-11	CARBON	2.2K 5% 1/4W
Q318	8-729-900-63	TRANSISTOR	DTA124ES	R213	1-249-421-11	CARBON	2.2K 5% 1/4W
Q319	8-729-900-36	TRANSISTOR	DTC124ES	R214	1-249-413-11	CARBON	470 5% 1/4W
Q320	8-729-900-36	TRANSISTOR	DTC124ES	R215	1-249-418-11	CARBON	1.2K 5% 1/4W
Q321	8-729-900-36	TRANSISTOR	DTC124ES	R216	1-249-413-11	CARBON	470 5% 1/4W
Q322	8-729-900-36	TRANSISTOR	DTC124ES	R217	1-249-418-11	CARBON	1.2K 5% 1/4W
Q323	8-729-900-36	TRANSISTOR	DTC124ES	R218	1-249-413-11	CARBON	470 5% 1/4W
Q324	8-729-900-36	TRANSISTOR	DTC124ES	R219	1-249-418-11	CARBON	1.2K 5% 1/4W
Q325	8-729-900-36	TRANSISTOR	DTC124ES	R220	1-249-437-11	CARBON	47K 5% 1/4W
Q326	8-729-900-36	TRANSISTOR	DTC124ES	R221	1-249-435-11	CARBON	33K 5% 1/4W

SURROUND(E611)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R222	1-249-435-11	CARBON	33K 5% 1/4W	R326	1-247-852-11	CARBON	7.5K 5% 1/4W
R223	1-249-437-11	CARBON	47K 5% 1/4W	R327	1-247-852-11	CARBON	7.5K 5% 1/4W
R224	1-249-429-11	CARBON	10K 5% 1/4W	R328	1-249-884-11	CARBON	4.7M 5% 1/4W
R225	1-249-422-11	CARBON	2.7K 5% 1/4W	R329	1-249-433-11	CARBON	22K 5% 1/4W
R226	1-249-417-11	CARBON	1K 5% 1/4W	R330	1-249-433-11	CARBON	22K 5% 1/4W
R252	1-249-417-11	CARBON	1K 5% 1/4W	R331	1-249-433-11	CARBON	22K 5% 1/4W
R253	1-249-437-11	CARBON	47K 5% 1/4W	R332	1-249-441-11	CARBON	100K 5% 1/4W
R254	1-249-416-11	CARBON	820 5% 1/4W	R333	1-249-433-11	CARBON	22K 5% 1/4W
R255	1-247-897-11	CARBON	560K 5% 1/4W	R334	1-249-441-11	CARBON	100K 5% 1/4W
R256	1-249-437-11	CARBON	47K 5% 1/4W	R335	1-249-441-11	CARBON	100K 5% 1/4W
R257	1-249-441-11	CARBON	100K 5% 1/4W	R340	1-249-437-11	CARBON	47K 5% 1/4W
R258	1-249-409-11	CARBON	220 5% 1/4W	R341	1-249-437-11	CARBON	47K 5% 1/4W
R259	1-249-418-11	CARBON	1.2K 5% 1/4W	R342	1-249-437-11	CARBON	47K 5% 1/4W
R260	1-249-421-11	CARBON	2.2K 5% 1/4W	R343	1-249-437-11	CARBON	47K 5% 1/4W
R261	1-249-413-11	CARBON	470 5% 1/4W	R344	1-249-429-11	CARBON	10K 5% 1/4W
R262	1-249-421-11	CARBON	2.2K 5% 1/4W	R345	1-249-437-11	CARBON	47K 5% 1/4W
R263	1-249-421-11	CARBON	2.2K 5% 1/4W	R346	1-249-441-11	CARBON	100K 5% 1/4W
R264	1-249-413-11	CARBON	470 5% 1/4W	R348	1-249-437-11	CARBON	47K 5% 1/4W
R265	1-249-418-11	CARBON	1.2K 5% 1/4W	R350	1-247-887-00	CARBON	220K 5% 1/4W
R266	1-249-413-11	CARBON	470 5% 1/4W	R351	1-249-435-11	CARBON	33K 5% 1/4W
R267	1-249-418-11	CARBON	1.2K 5% 1/4W	R352	1-247-887-00	CARBON	220K 5% 1/4W
R268	1-249-413-11	CARBON	470 5% 1/4W	R353	1-249-405-11	CARBON	100 5% 1/4W
R269	1-249-418-11	CARBON	1.2K 5% 1/4W	R370	1-249-425-11	CARBON	4.7K 5% 1/4W
R270	1-249-437-11	CARBON	47K 5% 1/4W	R371	1-249-430-11	CARBON	12K 5% 1/4W
R271	1-249-435-11	CARBON	33K 5% 1/4W	R372	1-247-903-00	CARBON	1M 5% 1/4W
R272	1-249-435-11	CARBON	33K 5% 1/4W	R373	1-247-903-00	CARBON	1M 5% 1/4W
R273	1-249-437-11	CARBON	47K 5% 1/4W	R374	1-247-887-00	CARBON	220K 5% 1/4W
R275	1-249-422-11	CARBON	2.7K 5% 1/4W	R375	1-247-887-00	CARBON	220K 5% 1/4W
R276	1-249-417-11	CARBON	1K 5% 1/4W	R376	1-247-887-00	CARBON	220K 5% 1/4W
R301	1-249-435-11	CARBON	33K 5% 1/4W	R377	1-247-887-00	CARBON	220K 5% 1/4W
R302	1-247-887-00	CARBON	220K 5% 1/4W	R378	1-249-441-11	CARBON	100K 5% 1/4W
R303	1-249-405-11	CARBON	100 5% 1/4W	R379	1-249-429-11	CARBON	10K 5% 1/4W
R309	1-249-428-11	CARBON	8.2K 5% 1/4W	R380	1-249-429-11	CARBON	10K 5% 1/4W
R310	1-249-428-11	CARBON	8.2K 5% 1/4W	R385	1-249-413-11	CARBON	470 5% 1/4W
R311	1-249-431-11	CARBON	15K 5% 1/4W	R398	1-249-429-11	CARBON	10K 5% 1/4W
R312	1-249-428-11	CARBON	8.2K 5% 1/4W	R399	1-249-441-11	CARBON	100K 5% 1/4W
R313	1-249-436-11	CARBON	39K 5% 1/4W	R401	1-247-887-00	CARBON	220K 5% 1/4W
R314	1-249-423-11	CARBON	3.3K 5% 1/4W	R402	1-249-425-11	CARBON	4.7K 5% 1/4W
R315	1-249-437-11	CARBON	47K 5% 1/4W	R403	1-249-436-11	CARBON	39K 5% 1/4W
R316	1-247-903-00	CARBON	1M 5% 1/4W	R404	1-249-441-11	CARBON	100K 5% 1/4W
R317	1-249-429-11	CARBON	10K 5% 1/4W	R405	1-247-903-00	CARBON	1M 5% 1/4W
R318	1-247-887-00	CARBON	220K 5% 1/4W	R406	1-249-405-11	CARBON	100 5% 1/4W
R319	1-249-429-11	CARBON	10K 5% 1/4W	R407	1-249-438-11	CARBON	56K 5% 1/4W
R320	1-249-429-11	CARBON	10K 5% 1/4W	R408	1-249-426-11	CARBON	5.6K 5% 1/4W
R321	1-249-429-11	CARBON	10K 5% 1/4W	R409	1-249-412-11	CARBON	390 5% 1/4W
R322	1-249-437-11	CARBON	47K 5% 1/4W	R410	1-249-421-11	CARBON	2.2K 5% 1/4W
R323	1-249-431-11	CARBON	15K 5% 1/4W	R412	1-249-437-11	CARBON	47K 5% 1/4W
R324	1-249-437-11	CARBON	47K 5% 1/4W	R413	1-249-437-11	CARBON	47K 5% 1/4W
R325	1-249-431-11	CARBON	15K 5% 1/4W	R418	1-249-417-11	CARBON	1K 5% 1/4W

SURROUND(E611)

VIDEO IN

VIDEO MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R419	1-249-405-11	CARBON	100 5% 1/4W		* 1-639-986-11	VIDEO IN BOARD	
R420	1-249-417-11	CARBON	1K 5% 1/4W			*****	
R421	1-249-417-11	CARBON	1K 5% 1/4W				
R422	1-249-405-11	CARBON	100 5% 1/4W			< CAPACITOR >	
R423	1-249-417-11	CARBON	1K 5% 1/4W		C124	1-136-177-00	FILM 1uF 5% 50V
R424	1-249-417-11	CARBON	1K 5% 1/4W			< JACK >	
R425	1-249-405-11	CARBON	100 5% 1/4W		PJ501	1-580-174-31	JACK, PIN (3P FRONT) (VIDEO INPUT)
R426	1-249-417-11	CARBON	1K 5% 1/4W			< RESISTOR >	
R427	1-247-887-00	CARBON	220K 5% 1/4W				
R428	1-249-429-11	CARBON	10K 5% 1/4W				
R429	1-249-439-11	CARBON	68K 5% 1/4W		R226	1-249-418-11	CARBON 1.2K 5% 1/4W
R451	1-247-887-00	CARBON	220K 5% 1/4W		R276	1-249-418-11	CARBON 1.2K 5% 1/4W
R452	1-249-425-11	CARBON	4.7K 5% 1/4W		R517	1-247-804-11	CARBON 75 5% 1/4W
R453	1-249-436-11	CARBON	39K 5% 1/4W			*****	
R454	1-249-441-11	CARBON	100K 5% 1/4W				
R455	1-247-903-00	CARBON	1M 5% 1/4W			* A-4345-172-A VIDEO MAIN BOARD, COMPLETE (E611)	
R456	1-249-405-11	CARBON	100 5% 1/4W			* A-4345-213-A VIDEO MAIN BOARD, COMPLETE	
R457	1-249-438-11	CARBON	56K 5% 1/4W			(E511:US, Canadian, AUS)	
R458	1-249-426-11	CARBON	5.6K 5% 1/4W			* A-4345-563-A VIDEO MAIN BOARD, COMPLETE (E511:E)	
R459	1-249-412-11	CARBON	390 5% 1/4W			*****	
R460	1-249-421-11	CARBON	2.2K 5% 1/4W				
R468	1-249-417-11	CARBON	1K 5% 1/4W			< CAPACITOR >	
R469	1-249-405-11	CARBON	100 5% 1/4W		C500	1-124-927-11	ELECT 4.7uF 20% 100V
R470	1-249-417-11	CARBON	1K 5% 1/4W		C501	1-124-927-11	ELECT 4.7uF 20% 100V
R471	1-249-417-11	CARBON	1K 5% 1/4W		C502	1-124-927-11	ELECT 4.7uF 20% 100V
R472	1-249-405-11	CARBON	100 5% 1/4W		C503	1-124-471-00	ELECT 1000uF 20% 6.3V
R473	1-249-417-11	CARBON	1K 5% 1/4W		C504	1-124-471-00	ELECT 1000uF 20% 6.3V
R475	1-249-405-11	CARBON	100 5% 1/4W		C505	1-124-471-00	ELECT 1000uF 20% 6.3V
R477	1-247-887-00	CARBON	220K 5% 1/4W		C507	1-164-097-11	CERAMIC 0.022uF 50V
R478	1-249-429-11	CARBON	10K 5% 1/4W		C508	1-124-927-11	ELECT 4.7uF 20% 100V
R479	1-249-439-11	CARBON	68K 5% 1/4W		C509	1-126-916-11	ELECT 1000uF 20% 6.3V
R815	1-249-429-11	CARBON	10K 5% 1/4W		C550	1-124-120-11	ELECT 220uF 25V (E511:E)
R816	1-249-433-11	CARBON	22K 5% 1/4W				
R817	1-249-429-11	CARBON	10K 5% 1/4W		C801	1-164-085-11	CERAMIC 0.001uF 10% 50V (E611)
R819	1-249-433-11	CARBON	22K 5% 1/4W		C802	1-124-477-11	ELECT 47uF 20% 25V (E611)
R820	1-249-433-11	CARBON	22K 5% 1/4W		C803	1-124-477-11	ELECT 47uF 20% 25V (E611)
R1000	1-247-887-00	CARBON	220K 5% 1/4W			< CONNECTOR >	
R1001	1-249-423-11	CARBON	3.3K 5% 1/4W		CN104	* 1-568-824-11	SOCKET, CONNECTOR 5P
R1002	1-249-427-11	CARBON	6.8K 5% 1/4W		CNJ500	* 1-564-358-00	PIN, CONNECTOR 3P (E511:E)
R2000	1-249-410-11	CARBON	270 5% 1/4W				
R2001	1-249-411-11	CARBON	330 1/4W			< DIODE >	
R2051	1-249-411-11	CARBON	330 1/4W		D801	8-719-912-20	DIODE 1SS120
					D802	8-719-912-20	DIODE 1SS120 (E611)
					D803	8-719-912-20	DIODE 1SS120
					D804	8-719-912-20	DIODE 1SS120 (E611)
					D805	8-719-912-20	DIODE 1SS120 (E611)
X301	1-567-132-00	RESONATOR, CERAMIC	8.00MHz				

VIDEO MAIN

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
DR900	* 1-564-336-61	PIN, CONNECTOR 2P	
DR901	* 1-564-338-00	PIN, CONNECTOR 4P	
< IC >			
IC500	8-759-991-77	IC BA7625	
< JACK >			
J500	1-565-351-11	JACK, PIN 3P (VIDEO 2,3 IN/OUT)	
J501	1-565-351-11	JACK, PIN 3P (VIDEO 1 IN/OUT, MONITOR)	
J800	1-566-819-31	JACK 1P (DRLC IN) (E611)	
< COIL >			
L500	1-410-977-11	INDUCTOR 100uH	
< TRANSISTOR >			
Q100	8-729-140-98	TRANSISTOR 2SD773-34	
Q500	8-729-141-03	TRANSISTOR 2SA733-QP	
Q501	8-729-141-03	TRANSISTOR 2SA733-QP	
Q502	8-729-141-03	TRANSISTOR 2SA733-QP	
Q801	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE (E611)	
Q803	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q804	8-729-620-05	TRANSISTOR 2SC2603-EF (E611)	
< RESISTOR >			
R01	△ 1-247-696-11	CARBON 47 1/4W (E611)	
R500	1-247-804-11	CARBON 75 5% 1/4W	
R501	1-247-804-11	CARBON 75 5% 1/4W	
R502	1-247-804-11	CARBON 75 5% 1/4W	
R503	1-249-403-11	CARBON 68 5% 1/4W	
R504	1-249-429-11	CARBON 10K 5% 1/4W	
R505	1-249-403-11	CARBON 68 5% 1/4W	
R506	1-249-429-11	CARBON 10K 5% 1/4W	
R507	1-249-403-11	CARBON 68 5% 1/4W	
R508	1-249-429-11	CARBON 10K 5% 1/4W	
R509	1-249-405-11	CARBON 100 5% 1/4W	
R510	1-249-405-11	CARBON 100 5% 1/4W	
R511	1-249-405-11	CARBON 100 5% 1/4W	
R512	1-249-405-11	CARBON 100 5% 1/4W	
R513	1-249-405-11	CARBON 100 5% 1/4W	
R514	1-249-405-11	CARBON 100 5% 1/4W	
R550	△ 1-212-966-00	FUSIBLE 22 1/2W (E511:E)	
R800	1-249-417-11	CARBON 1K 5% 1/4W (E611)	
R801	1-249-429-11	CARBON 10K 5% 1/4W	
R802	1-249-437-11	CARBON 47K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R803	△ 1-247-688-11	CARBON 10 5% 1/4W F (E611)	
R804	1-249-429-11	CARBON 10K 5% 1/4W (E611)	
R805	1-249-429-11	CARBON 10K 5% 1/4W (E611)	
R806	1-249-437-11	CARBON 47K 5% 1/4W (E611)	
R807	1-249-417-11	CARBON 1K 5% 1/4W	
R808	1-249-393-11	CARBON 10 5% 1/4W	
R809	1-249-425-11	CARBON 4.7K 5% 1/4W (E611)	
R810	1-249-425-11	CARBON 4.7K 5% 1/4W (E611)	
R811	1-249-429-11	CARBON 10K 5% 1/4W (E611)	

MISCELLANEOUS

9	1-690-065-11	WIRE, FLAT TYPE (15 CORE)
10	1-590-237-11	WIRE, FLAT TYPE (19 CORE)
11	1-690-066-11	WIRE, FLAT TYPE (5 CORE)
57	△ 1-569-007-11	ADAPTOR, CONVERSION 2P (E511:E)
58	1-535-530-11	PLUG, JUMPER

CNP901 △ 1-574-902-11 CORD, POWER (E511:E)

CNP901 △ 1-590-083-11 CORD, POWER (E511:AUS)

CNP901 △ 1-590-771-11 CORD, POWER (E511:US,Canadian/E611)

ACCESSORIES & PACKING MATERIALS

1-465-712-11	COMMANDER, STANDARD (RM-P312)
1-558-232-21	CORD (WITH CONNECTOR) (SIRC5) 4P (E511:US, E, AUS/E611)
1-559-533-11	CORD, CONNECTION (E511:US, E, AUS/E611)
1-590-136-31	CORD, CONNECTION (E511:US, E, AUS)
3-753-477-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINES) (E511:E, AUS)
3-753-477-21	MANUAL, INSTRUCTION (ENGLISH) (E511:US/E611)
4-925-079-01	COVER (6), BATTERY
* 4-931-988-21	INDIVIDUAL CARTON (E511:US, E, AUS)
* 4-931-988-31	INDIVIDUAL CARTON (E611)
* 4-944-501-01	CUSHION

HARDWARE LIST

# 1	7-682-548-09	SCREW +BVTT 3X8 (S)
# 2	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S
# 3	7-621-849-00	SCREW, TAPPING
# 4	7-682-550-04	SCREW +BVTT 3X12 (S)

Note:
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

